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## NOTES

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*Contents, Index, &c., will soon follow.*

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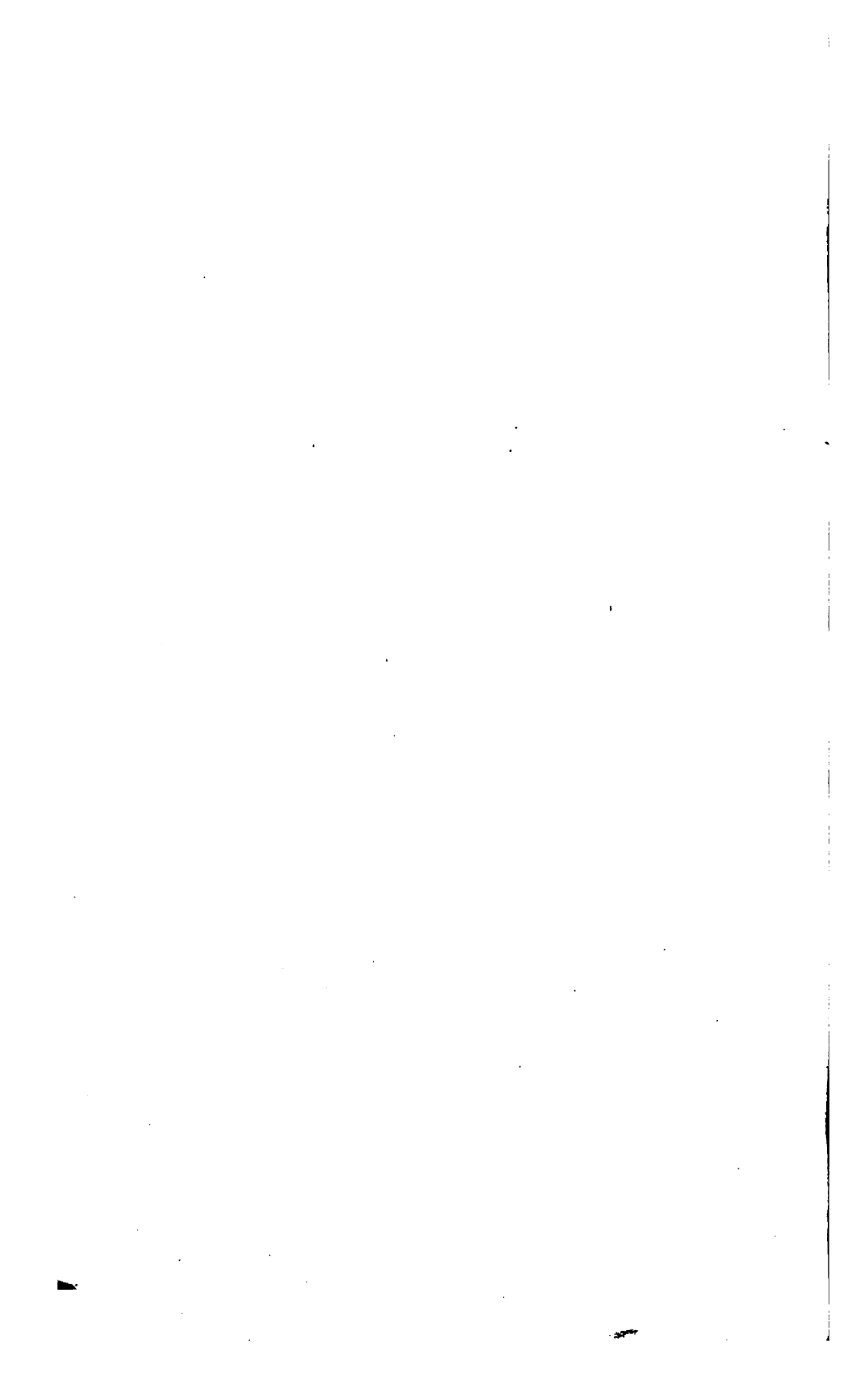
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NOTES  
ON  
ARYAN AND DRAVIDIAN  
PHILOLOGY.

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NOTES  
ON  
ARYAN AND DRAVIDIAN  
PHILOLOGY

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VOL. I.

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TO  
THE HON. D. F. CARMICHAEL

IN

*ACKNOWLEDGMENT OF THE  
INTEREST HE TOOK IN THE STUDY AND  
PROGRESS OF THE LANGUAGES AND LITERATURES  
OF THE COUNTRY AND IN TOKEN OF  
RESPECT AND ADMIRATION*

THIS VOLUME IS DEDICATED

BY

THE AUTHOR.

*Madras, Sept. 1884.*



## PREFACE.

---

I STUDIED while young Mahrathi, Tamil, Telugu and Sanskrit for many years, and, after finishing my collegiate course of studies, learnt Kanarese, Malayalam, Hindustani, Bengali and Uriya. Having seen my taste for linguistic study, my teacher, Mr. E. Thompson, the late Principal of the Presidency College, recommended to me a comparative study of the languages, and I carried out the advice. This comparative method gave a fresh impetus to my study of languages and made the otherwise uninteresting and barren investigation of words and grammatical forms of languages very pleasant and fruitful. He recommended me also to learn Latin and Greek, and in my study of those languages he rendered me much assistance for which I have to thank him for ever. By means of this peculiar study I was able to discover many facts concerning the languages, I studied, which had remained in deep obscurity, to assign proper derivations to difficult words, and to explain grammatical formations by sound philological laws. I have thus gathered materials for an etymological dictionary of each of the languages I studied, and a comparative grammar of each family of those languages ; and all these works are in preparation. Before publishing them I wished to communicate to the reading public the new laws and rules which I have discovered in the Aryan and Dravidian languages and be benefited by the criticism of competent scholars. With this view I have written a series of volumes which treat of the Aryan and Dravidian languages alternately and of which this is the first.

The method I have followed in treating of the subject is my own and is in keeping with the analytical scheme of my investigations.

Each word mentioned in a Group must be traced directly to the word from which it is derived, and ultimately connected with the principal word which heads the Group. But, in some cases, I have provisionally included words in one Group, and they may be referred to another with equal propriety.

The different Groups which are headed by different words may be blended into one on account of the alliance of the representative words which may be proved hereafter. In the same way one Group may be separated into more Groups owing to the errors I may have committed in putting some words in a particular Group.

In deriving words from a primitive source I have conceived forms which do not now exist, though they might have been in use formerly; but I have not marked them and have left the readers to know them and treat them as such. Those who cannot make the distinction may bear the fact in mind that such forms will not be mentioned in the Index which will appear at the end of this volume.

The results of my investigations may be imperfect, and, in some cases, erroneous, owing to the incomprehensiveness of my knowledge of the Aryan languages, which is confined to Sanskrit, Greek, Latin and Anglo-Saxon. But I have been emboldened to put them before the public by a conviction which I have myself derived and which was strengthened by the agreement of some of my learned friends in my views and theories notwithstanding their novelty.

With regard to the languages treated in this book, it is to be remarked that Sanskrit being the oldest of the Aryan languages occupies a prominent position and next come Greek and Latin and other languages. In Sanskrit too

we must recognize a threefold division according to the three stages of the language. The first stage may be called primitive, the second, derivative, and the third, corruptive. The Vedic Sanskrit occupies the first stage and has passed the agglutinative character and assumed the inflexional. We have no record of the language in its agglutinative character. The second stage is occupied by the Classical Sanskrit in which there is a greater change than seen in the Vedic Sanskrit. The last stage is to be assigned to Prakrit which has undergone a greater modification than the previous two have done. But the present classification of Sanskrit into the three kinds is not coterminous with the above three stages, but arbitrarily created by Pāṇini and his predecessors who separated the Classical from the Vedic, and by Vararuci, Hēmacandra and others who differentiated the Prakritic languages from the Classical Sanskrit. These three languages are therefore overlapping each other. But as no living language in the world can remain without undergoing any modification, the Vedic Sanskrit which was a living language at one time, began to pass from its primitive stage to the derivative and corruptive stages; for in the Vedas themselves we see traces of mutations and corruptions. The Classical Sanskrit also exhibits a great deal of those modifications and corruptions which constitute the peculiar feature of the Prakritic languages. Take, for instance, the three allied forms *gr̥bhñāmi*, *gr̥hñāmi*, *ghinnāmi*, the first of which is primitive; the second, derivative, because of the change of *bh* into *h*; and the third, Prakritic on account of the corruption of the word *gr̥bhñāmi* by the insertion of *i* for the vowel (properly a consonant) *r*, the doubling of *n* and the amalgamation of the aspirate *h* with the initial *g*. The first two occur in the Vedas and the last in the Classical Sanskrit. The form *ōpiṣe* which is a Prakritic

corruption of *āvapasē* (*ā* prefix, *vap*, 'to sow') occurs in the Rig Veda. The words *vauṣaṭ* and *vaṣaṭ* (for *vahśat*), and *vaṭ*, a contraction of *vaṣat*, all meaning 'may he carry,' are Prakritic in their forms. A right understanding of these three stages is necessary for scientific investigations. But in the Dravidian languages which have been the spoken languages of Southern India for nearly twenty-four centuries, no such distinctions have come into existence.

With regard to the Dravidian languages, which are generally considered as belonging to the Turanian family, I would observe that I am not acquainted with any of the languages of the so-called family. The word Turanian is a negative term and means at most that the languages to which it is applied are not Aryan. In spite of the prevailing opinion of Dravidian scholars, I have brought the Dravidian languages within the pale of the Aryan family, and have succeeded, to a great extent, in connecting their vocables with those of the Aryan languages and their vernacular daughters, and in explaining their grammatical structure by reference to those of the latter languages, and hope that those scholars whose opinion differs from mine will begin to agree with me when they read my etymological dictionaries and comparative grammars. The Dravidian languages cannot, however, entirely be traced to the Classical Sanskrit to which they are related rather as younger sisters, but to the Vedic Sanskrit only; and in their philological importance they are greater than Latin, Persian and many other languages. As regards the religion, archæology, philosophy and history of Southern India, they are as important as Sanskrit itself and perhaps more. They are older than any classical language except Sanskrit, Latin, Greek and Hebrew, and to them we must look for a thorough knowledge of the intercourse which the Western nations had with the Hindus in Southern India and the mutual



influence thus exerted. The subject is treated at full length in the Second Volume which is also in the Press.

In writing these volumes, the principal resources are derived from my own original investigations. I have published in the beginning of this volume a list of the names of authors to whom I am variously indebted for the valuable information received from their works. Foremost of them are Professors Bopp, MaxMüller and Whitney, the study of whose works suggested to me the method of my investigations and whom I regard as my teachers.

I have to thank Dr. Oppert, Professor of Sanskrit in the Presidency College and my collaborateur in the field of Philology, for his sympathy with, and his interest in, my linguistic researches.

In conclusion, I have to thank Dr. Duncan, the Principal of the Presidency College, for the special access he allowed me to the books of the College Library.

M. SESHAGIRI SASTRI.

MADRAS, *Sept. 1884.*

## SCHEME OF TRANSLITERATION.

अ a	उ ण	ब b
आ ā	च c	भ bh
इ i	ऊ ē	म m
ई ī	छ ch	य y
उ u	ज j	र r
ऊ ū	झ j̥	ल l
ए e	झ jh	व v
ऐ ē	ञ ñ	श ś
ओ o	ट t	ष ṣ
ए ai	ठ th	स s
ओ o	ड ḍ	ह h
ऐ ai	ढ ḍh	ळ ḷ
ओ o	ण ñ	ए ai
ऐ ai	त t	अ a
ओ o	थ th	इ i
ऐ ai	द d	उ u
ओ o	ध dh	ए ai
ऐ ai	न n	उ u
ओ o	प p	इ i
ऐ ai	फ ph	उ u
ओ o		इ i

<sup>1</sup> Visarga.<sup>2</sup> Ardhanusvāra.<sup>3</sup> Aydam (Tamil).


# LIST OF BOOKS CONSULTED AND REFERRED TO IN THIS VOLUME.

---

1. Adams' Roman Antiquities.
2. Æschylus's Agamemnon.
3. Aufrecht's Unādisūtra with the Commentary of Ujjvaladatta.
4. Ākhyātacandrikā.
5. Āśvalāyanagṛhyasūtra and Gargyanārāyaṇa's Vṛtti.
6. Beames's Comparative Grammar of the Modern Aryan Languages of India.
7. Benfey's Sanskrit Grammar.
8. Bohtlingk and Roth's Sanskrit-English Dictionary.]
9. Bopp's Comparative Grammar.
10. Bopp's Glossarium Sanskritum.
11. Bresslau's Hebrew-English Dictionary.
12. Burnell's Palæography.
13. Buttmann's Greek Grammar.
14. Catafago's Arabic-English Dictionary.
15. Cowell's Prakṛtaprakāśa.
16. Cox's Aryan Mythology.
17. Cox's Introduction to Mythology and Folklore.
18. Crusius's Homeric Lexicon.
19. Dvirūpakōśa.
20. Eadie's Biblical Cyclopædia.
21. Fallon's New Hindustani-English Dictionary.
22. Forbes's Bāgh-o-Bahar.
23. Forbes' Hindustani Grammar.
24. Forbes' Hindustani-English Dictionary.
25. Freund's Latin Dictionary.
26. Gesinius's Hebrew Lexicon.
27. Gladstone's Homeric Synchronism.
28. Gladstone's Homeric Primer.
29. Gladstone's Juventus Mundi.
30. Goldziher's Mythology among the Hebrews.
31. Græcæ Grammaticæ Rudimenta.

32. Haug's Essays on the Parsis.
33. Hesiod.
34. Hoernle's Grammar of the Gaudian Languages.
35. Homer's Iliad.
36. Homer's Odyssey.
37. Lee's Grammar of the Hebrew Language.
38. Liddell and Scott's Greek-English Lexicon.
39. L. N. R.'s "The Book and Its Story."
40. Matthiæ's Greek Grammar.
41. Max Müller's "Chips from a German Workshop."
42. Max Müller's Rig Veda Samhitā with Commentary.
43. Max Müller's Essays on the Science of Language.
44. Mēdinikōśa.
45. Monier Williams's Sanskrit-English Dictionary.
46. Muir's Original Sanskrit Texts.
47. Oppert's "Ancient Commerce of India."
48. Oppert's Classification of Languages.
49. Oppert's Śukranītisāra.
50. Palmer's Persian-English Dictionary.
51. R̥kprātīśākhyā.
52. Roth's Yāska Nirukta.
53. Sayce's Principles of Comparative Philology.
54. Schleicher's Compendium of Comparative Grammar of Sanskrit, Greek and Latin.
55. Schmitz's Latin Grammar.
56. Smith's Dictionary of Greek and Roman Biography and Mythology.
57. Smith's Greek and Roman Antiquities.
58. Smith's Latin-English Dictionary.
59. Sophocle's Œdipus.
60. Taittirīyaprātīśākhyā.
61. Whitney's Sanskrit Grammar.
62. Whitney's Study of Languages.
63. Zumpt's Latin Grammar.

And other works.

 A separate list of the books on Dravidian Languages consulted and referred to will be given in Volume II.

## LIST OF ABBREVIATIONS.

---

Abl.....Ablative case.	Kan .....Kanarese.
Accus .....Accusative case.	Lat.....Latin.
Ang.-Sax...Anglo-Saxon.	Loc .....Locative case.
Arab .....Arabic.	Mal .....Malayalam
Comp .....Comparative degree.	Mas .....Masculine gender.
Dan .....Danish.	M. E. ....Middle English.
Dat.....Dative case.	Neut.....Neuter gender.
Egypt.....Egyptian.	Nom.....Nominative case.
Eng.....English.	Pers .....Persian.
Fem. ....Feminine gender.	Plur.....Plural number.
Gaud.....Gaudian languages.	Rel .....Relative.
Gen .....Genitive case.	Sans.....Sanskrit.
Ger.....German.	Sing.....Singular number.
Gr.....Greek.	Śukra.....Śukranītisāra.
Heb .....Hebrew.	Sup .....Superlative degree.
Hind .....Hindi and Hindustani.	Tam.....Tamil.
Hom. Syn.Homeric Synchronism.	Tait. Sam..Taittiriya Samhitā.
Icel .....Icelandic.	Tel.....Telugu.
Inter.....Interrogative.	Teut.....Teutonic.
Juv.Mund.Juventus Mundi.	= .....‘equals,’ or ‘is equal to.’

## COMPARATIVE TABLE

LANGUAGES.	VOW.						
	a	ā	i	ī	u	ū	r
SANSKRIT ...	अ	आ	इ	ई	उ	ऊ	ऋ
GREEK ...	α	ᾱ ω	ι	η	υ	ύ	—
TAMIL ...	அ	ஆ	இ	ஈ	உ	ஊ	஋
TELUGU ...	అ	ఆ	ఇ	ఈ	ఉ	ఊ	ఋ
KANARESE ...	ಅ	ಆ	ಇ	ಈ	ಉ	ಊ	ಋ
MALAYALAM ...	അ	ആ	ഇ	ഈ	ഉ	ഊ	ഋ
HEBREW ...	א ה	ה	ו	ז	ח	ט	—
ARABIC ...	ا	آ	إ	ي	و	وو	—

## OF ALPHABETS—I.

ELS.

ē	l̄	l̄	e	ē	ai	o	ō	au
ਏ	ਲ	ਲ	—	ਏ	ਏ	—	ਓ	ਐ
—	—	—	ε	ελ	αι ελ &c.	ο	ω	αυ ου &c.
ਝ	ਞ	ਞ	ਞ	ਞ	ਝ	ਝ	ਝ	ਝਞ
ਝੂ	ਞ	ਞ	ਞ	ਞ	ਞ	ਞ	ਞ	ਞ
ਝੂ	ਞ	ਞ	ਞ	ਞ	ਞ	ਞ	ਞ	ਞ
ਝੂ	ਞ	ਞ	ਞ	ਞ	ਞ	ਞ	ਞ	ਞ
ਝੂ	ਞ	ਞ	ਞ	ਞ	ਞ	ਞ	ਞ	ਞ
ਝੂ	ਞ	ਞ	ਞ	ਞ	ਞ	ਞ	ਞ	ਞ
ਝੂ	ਞ	ਞ	ਞ	ਞ	ਞ	ਞ	ਞ	ਞ
ਝੂ	ਞ	ਞ	ਞ	ਞ	ਞ	ਞ	ਞ	ਞ

## COMPARATIVE TABLE

LANGUAGES.	CONSO-					
	<i>k</i>	<i>kh</i>	<i>g</i>	<i>gh</i>	<i>ṅ</i>	
SANSKRIT ...	क	ख	ग	घ	ङ	
GREEK ...	κ	χ	γ	—	γ*	
TAMIL ...	க	உ	ம	வ	ஊ	
TELUGU ...	క	ఖ	గ	ఘ	ఙ	
KANARESE ...	ಕ	ಖ	ಗ	ಘ	ಙ	
MALAYALAM ...	ക	ഖ	ഗ	ഘ	ങ	
HEBREW ...	ק כ ג	ך ח ט	ד	ז	ז	
ARABIC & PERSIAN.	ك ق	خ ح	ج	ج	ع	

\* *g* is used before three other letters of the guttural group to represent *ṅ*.



## OF ALPHABETS—II.

## NANTS.

<i>c</i>	<i>c̄</i>	<i>ch</i>	<i>j</i>	<i>j̄</i> or <i>z</i>	<i>jh</i>	<i>ñ</i>
च	च̄	छ	ज	—	झ	ञ
।	।	।	।	।	।	।
फ	।	भ	झ	।	ण	ण
घ	घ†	घ	झ	झ†	ण	ण
ड	।	ड	झ	।	ण	ण
ड	।	ड	झ	।	ण	ण
।	।	।	।	।	।	।
ल	।	ल	ल	।	ल	ल

† A dental sound as *c* and *j* in Mahrathi.

## COMPARATIVE TABLE

LANGUAGES.		CONSONANTS.				
		t	th	d	dh	n
SANSKRIT	...	ट	ठ	ड	ढ	ण
GREEK	...	—	—	—	—	—
TAMIL	...	ட	த	ட	஢	ண
TELUGU	...	ట	థ	డ	ఢ	ణ
KANARESE	...	ಟ	ಠ	ಡ	ಢ	ಣ
MALAYALAM	...	ട	ഠ	ഡ	ഢ	ണ
HEBREW	...	—	—	—	—	—
ARABIC AND PERSIAN	...	ط	ث	د	ذ	ن

## OF ALPHABETS—III.

—(Continued.)

<i>t</i>	<i>th</i>	<i>d</i>	<i>dh</i>	<i>n</i>	<i>p</i>	<i>ph</i>	<i>b</i>	<i>bh</i>	<i>m</i>
त	थ	द	ध	न	प	फ	ब	भ	म
τ	θ θ	Δδ	—	N <sub>v</sub>	Π π	Φ φ	B β	—	M <sub>μ</sub>
த	த	த	த	ந	ப	ஹ	பை	ஹ	ம
ଡ	ଠ	ଢ	ଢ	ନ	ପ	ଫ	ବ	ଭ	ମ
த	த	த	த	ந	ப	ஹ	பை	ஹ	ம
ଡ	ଠ	ଢ	ଢ	ନ	ପ	ଫ	ବ	ଭ	ମ
த	த	த	த	ந	ப	ஹ	பை	ஹ	ம
ଡ	ଠ	ଢ	ଢ	ନ	ପ	ଫ	ବ	ଭ	ମ
த	த	த	த	ந	ப	ஹ	பை	ஹ	ம
ଡ	ଠ	ଢ	ଢ	ନ	ପ	ଫ	ବ	ଭ	ମ

\* Sounded like *v*.

## COMPARATIVE TABLE

LANGUAGES.	CONSONANTS.							
	y	r	l	v	ś	ṣ	s	h
SANSKRIT ...	य	र	ल	व	श	ष	स	ह
GREEK ...	ι	P ρ	Λ λ	Τ υ	—	—	Σ σς	* *
TAMIL ...	ய	ர	ல	வ	ச	ஷ	ச	ஹ
TELUGU ...	య	ర	ల	వ	శ	ష	స	హ
KANARESE ...	ಯ	ರ	ಲ	ವ	ಶ	ಷ	ಸ	ಹ
MALAYALAM ...	യ	ര	ല	വ	ശ	ഷ	സ	ഹ
HEBREW ...	י	ר	ל	ו	—	ש	ס	ה
ARABIC & PER.	ي	ر	ل	و	—	ش	س	ه

\* An inverted comma, originally ε, is inserted over initial vowels and r to

## OF ALPHABETS—IV.

—(Concluded.)

l	l	r	n	z	ps	ks	z	a	gh	f	zh
ਲ	—	—	—	—	—	ਕ	—	—	—	—	—
—	—	—	—	З з	П п	К к	—	—	—	—	—
ள	ஃ	ற	ன	—	—	க	—	—	—	—	—
જ	—	ဇ	—	—	—	ခ	—	—	—	—	—
ஜ	ஜ	ஈ	—	—	—	झ	—	—	—	—	—
ஜ	க	ச	—	—	—	झ	—	—	—	—	—
—	—	—	—	ز ز	—	—	—	ا†	—	—	—
—	—	—	—	ظ ظ	—	—	ض‡	ع†	غ	ف	ث

represent *h*. † The silent *a*. ‡ Sounded as *d* in Arabic and as *z* in Urdu.

## SCHEME OF VEDIC ACCENTS.

*Udātta*, and *Pracaya*, i.e., *Anudātta* } ...not marked.  
following *Svarita*.

*Anudātta* preceding the *Udātta* and } ...marked as —  
*Svarita*.

*Svarita* ... .. „ |

There are three *Svaras* or accents in the Vedas; the *Udātta*, 'acute,' the *Anudātta*, 'grave,' and the *Svarita*, 'toned.' When more than one *Anudātta* precede an *Udātta*, all but the last are often sounded lower. The *Anudāttas* following a *Svarita* are sounded like *Udātta* generally and also called *Pracayas*. If we compare the above accents with the seven tones of a musical gamut, we can know the exact sounds of those accents. Let the *Udātta* be represented by any key on the piano and be marked as *O*, and स *sa* according to the Hindu method; then the two sounds of the *Anudātta* will be marked as *B* and नि *ni*, and *G* and प *pa* respectively. The *Svarita* will be sounded as *O* sharp and रि *ri*.<sup>1</sup> The *Pracaya svara*, as it is pronounced by the Brahmins of the *Taittirīya sākḥā* and also by the Rig Vedis, is identical with the *Udātta* and therefore is equal to *O* and स *sa*. A long *Svarita* in the Rig Veda is split into two long sounds, the first of which is *Udātta* and the second *Svarita*.

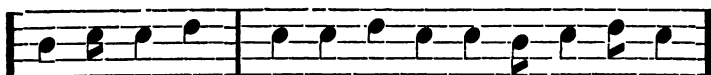
नि स्स सा री सा नि सा रि सा नि स्स रि नी स



अग्निमी - ऌ पु री हि तं य ज्ञ स्य दे व

<sup>1</sup> It is called *buddha ṛabha* by the Hindus.

नि स्स सा री सा सा री सा स नि सा रि सा



मृ त्वि जं - हो ता - रं र ऋ धा तं मं

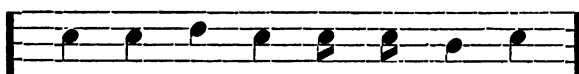
Rig Veda, I. 1. 1.

पा प नि स्सा नी स सा री नी



चो द यि चो मू नृ ता - नां

सा सा री सा स स नी सा



चे तं - ती सु म ती नाम्

Ibid, I. 3. 4.





## INTRODUCTION.

I. Grammar and Etymology originated first among the Hindus and, having been incorporated with their sacred literature, were held in high esteem. Nearly four thousand years ago, when almost all the other nations of the earth were leading a savage life without any civilization, and without any learning, the Hindus had a sacred literature named Veda and some sciences which arose out of and for the study of the Veda, and among them were Grammar and Etymology. The Hindus learnt the Vedas by heart, closely attending to every word and every syllable, which they pronounced according to rules and with proper accents. They investigated the etymology of every word they found in the Vedas and enquired into its meanings. From such a study originated the Niruktas and the Prātiśākhya in which are embodied the most complete classification of sounds according to the organs of pronunciation, the rules of the combination of vowels and consonants, and discussions on various parts of speech, and the like. Even in the Vedas themselves we can see the attempts of early etymologists to derive words; and their views and theories are, in some respects, better than those held by modern philologists. The Prātiśākhya were followed by more systematic works on the subject called Vyākaraṇa.

II. There are several works on the subject founded on different systems, of which the most important was that of Pāṇini which brought into desuetude all the other systems. It was written about twenty-six centuries ago and ever since has occupied the highest place in the grammatical

literatures of the world. Making every allowance for its errors and imperfections and for the symbols and signs arbitrarily introduced on account of the system adopted, we can say that it is the most scientific grammar, analysing the grammatical forms on sound principles, and classifying the processes. These classifications and analyses are generally so correct that even modern philologists take them as fundamental principles in their scientific investigations. I may therefore rightly call Pāṇini the first philologist. But his system was not perfect and there were errors, and these could not be detected by persons who knew only Sanskrit and could not compare it with the kindred languages; for they felt the same contempt as the Greeks for the languages of other nations whom they called *Mlēcchās* (those that speak an unrefined tongue), as the Greeks called them *βαρβαροι*. These errors and defects have been discovered by the modern philologist in whose hands the science of grammar and etymology has assumed a new form and a new character. Instead of studying one language, deriving its words and grammatical forms independently and laying down arbitrary rules, he compares every word of a language with the corresponding ones in the other languages of the same family and discovers the general laws of letters and words, on which he founds his new science of language.

III. This young science is now rapidly growing and trying to attain to maturity and perfection. There are, however, persons who question the scientific character of philology and maintain that nothing is certain about it. They assert also that there are only a very few letters in each language, of which the vowels are nothing and that any consonant may become any other consonant. In fact, such is the taunt which the incipient science received at

the hands of one of the greatest satirists of the world, Voltaire.<sup>1</sup> Satirical as it is, it is truth and nothing but truth, and in fact the crystallization of the whole truth of the science of philology. Charges of this kind may be brought against any science viewed in the light of an ignorant man for whom everything in the world is an independent element. If union is the principle of science, variety is the principle of ignorance.

Amidst the apparent confusion in the growth and development of a language there is a cosmos and harmony. The growth of a language takes place according to some order and this order is the foundation of the science of philology. There is a humorous anecdote of a Tamil man learning Telugu on the principle of analogy. He began his study with the Telugu word for a horse, viz. గుర్రము *gurramu*. No sooner did he hear the word, than he was reminded of the Tamil word குதிரை *kudirai*; and he began to apply the analogy to every other word resembling குதிரை *kudirai*; and first of them was ஆனை *ānai*, meaning 'elephant.' Like குதிரை *kudirai* the word ஆனை *ānai* ends in the vowel *ai*. He began his conjecture thus. If the Telugu name for குதிரை *kudirai* (horse) be గుర్రము *gurramu* (properly కుర్రము *kurramu*), the name of ஆனை *ānai* must be అర్రము *arramu*. Though this conclusion, based on the principle of analogy, is wrong in this particular case, yet it is the principle on which languages have been formed, and a person that is not capable of taking cognizance of this principle in the languages he studies, can never become a philologist. Let us see how this principle can be applied rightly. If the Tam. வரு *varu*, 'to come,' becomes వచ్చే *vāccu* in Telugu, Tam. தரு *taru*, 'to give,' must become తెచ్చే *teccu*<sup>2</sup> and பெறு *peru*, 'to

<sup>1</sup> Vide Max Müller's 'Lectures on the Science of Language.'

<sup>2</sup> By the same analogy போதரு *pōdaru* becomes పుతేరు *puttecu* and

get,' పుచ్చు *puccu*. If the Tam. *கொடை* *konai*, 'top,' assumes the form కొంగ *konṅu* = కొనగు *konagu* = కొనై *konai* + అగు *agu*, then *வடை* *valai*, that is *வடை* *vanai*, must become వంగు *vaṅgu* = వంగు *vaṅagu* = వనై *vanai* + అగు *agu*. In Sanskrit the word वृष *vṛṣa* means 'a beast' and 'virtue.' If वृष *vṛṣa* meaning 'animal' is modified as वृष *ṛkṣa*, 'bear,' (properly, वृष *ṛṣa*), by the elision of the initial व *v*, and then as *ursus* in Latin and *αρκτος* (properly *αρκος*) in Greek, and then this *ursus* is softened into अच्छ *accha*, 'bear,' in Sanskrit, is it not natural to expect that there should be the same or similar changes undergone by the word in the other meaning (viz. 'virtue')? and our expectation is realized in the forms Sans. अर्त *ṛta*, 'right,' Gr. *ἀρτι*, 'just,' Lat. *ordo*, 'a straight row,' and Sans. अच्छ *accha*, 'good,' thus वृष *ṛkṣa* corresponding to अर्त *ṛta*, *αρκτος* and *ursus*, to *ἀρτι* and *ordo*, and अच्छ *accha*, to अच्छ *accha*. Vide *Vṛṣa* Group.

In Sanskrit, वृष *vṛṣa* means 'an animal,' 'bull,' 'rat,' 'eminent,' and so on; of these meanings the most original is 'an animal'; and the word is modified as वृषभ *vṛṣabha* by taking the suffix व *va*, which is changed into भ *bha*. Now, वृषभ *vṛṣabha* is transformed into वर्षभ *varṣabha* by the gunation of the vowel वृ *ṛ*, गर्षभ *garṣabha* by the change of व *v* into ग *g* and गर्दभ *gardabha* by the change

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అగ్రతల *ēgutaru* ఏతెంచు *ēteṇṇu*. But the words are modified as పుత్తెంచు *puttenṇu* and ఏతెంచు *ētenṇu* by the insertion of a nasal sound for the first *c*, and the Telugu Pandits derive them from పొత్తెంచు *pōvutenṇu*, 'to cut off going,' ఏగుతెంచు *ēgutenṇu*, as if the latter parts were తెంచు *tenṇu*, 'to cut.'

of स *s* into द *d*. Analogy leads us to expect a similar transformation of ऋषभ *ṛṣabha*. We see accordingly that ऋषभ *ṛṣabha* is, in its turn, metamorphosed into अरुषभ *arsabha* by the gunation of the initial vowel ऋ *r* and राशुभ *rāśubha* by the transposition of the र *r* to the beginning of the word.

Again take the form पृश् *prś*, which means 'back' or 'side,' and forms the radical part of पृष्ठ *pr̥ṣṭha*, 'back,' पार्श्व *pārśva*, 'side,' Lat. *prope*, 'near,' पशु *parśu*, 'rib,' पुच्छ *puccha*, 'tail,' मुष्टि *muṣṭi*, 'elbow,' पृत् *pṛt*, 'battle,' originally 'side,' पृतना *pṛtanā*, 'army,' originally 'side,' पर्द *pard*, 'to fart,' Gr. *μετα*, Dor. *πεδα*, 'by side,' 'in the midst,' *παλιν*, 'back,' *πυγην*, 'tail,' *περδομαι*, *βδεω*, 'to fart,' Lat. *merda*, 'dung,' वर्चस् *varcas*, पुरिष *purīṣa* and पुरीष *purīṣa*, 'dung,' &c., is at last modified as विश्व *viś*, Lat. *fœx*, 'grounds,' 'sediments,' and is further modified as विष्टा *viṣṭhā* = विश्व *vis* + आ *ā* = विस्वा *vissā* = विस्ता *vistā* = विष्टा *viṣṭhā*. Compare Lat. *crista* = Gr. *κpas* + *a*, and the Gr. *ιστος*, Sans. इष्ट *iṣṭa*, suffixes of the superlative degree of adjectives, = ईयस् *īyas* + अ *a*, ईयस् *īyas* being the suffix of the comparative degree (p. 111). In these words there is a series of meanings all originating from the radical one of 'side,' the transition being from 'side' to 'back,' to the fist (or elbow), to tail and at last to animal excrescence. If पृश् *prś* assumes the forms of पृष्ठ *pr̥ṣṭha*, &c., we may expect similar changes from the similar word वृष *vṛṣa*, meaning 'an animal.' The word accordingly has the following

forms: बस्त *basta*, 'a goat,' बष्कयणी *baṣkayaṇī*, 'a cow that has yeaned long ago,' वशा *vaśa*, 'a cow,' पशु *paśu*, 'cattle,' मर्त्य *martya*, 'man,' वृषि *vr̥ṣi*, 'a goat,' गृष्टि *gr̥ṣṭi*, 'a cow that has yeaned once' for वृष्टि *vr̥ṣṭi*, मूष *mūṣa*, 'rat,' मार्जार *mārjāra*, 'cat,' पुरुष *puruṣa* and पूरुष *pūruṣa*, 'man,' वधू *vadhū*, 'woman,' विश् *viś*, 'man,' वेश *vēśa*, वेश्या *vēśyā*, 'whore,' विट *viṭa*, 'adulterer.' See the following table :—

Sans. पृश् <i>pr̥ś</i>	— Sans. वृष <i>vr̥ṣa</i>
„ पृष्ट <i>pr̥ṣṭa</i>	{ — „ गृष्टि <i>gr̥ṣṭi</i> properly गृष्टि <i>vr̥ṣṭi</i> .
„ पशु <i>par̥śu</i>	
„ पार्श्व <i>pārśva</i>	
Lat. <i>prope</i>	{ — „ मर्त <i>marta</i>
Sans. पर्द <i>parda</i>	
Gr. <i>περδομαι, βδew.</i>	
Sans. पुच्छ <i>puccha</i>	{ — „ पुंस् <i>pums</i> developed into पुमांस <i>pumāms</i> .
Gr. <i>πυγη.</i>	
Sans. मध्य <i>madhya</i>	
Gr. <i>μετα &amp; μετα.</i>	{ — „ वधू <i>vadhū</i>
Sans. पार्शि <i>pār̥ṣi</i>	
Lat. <i>perna</i> , 'ham.'	
Sans. पाश <i>pāśa</i>	{ — „ पशु <i>paśu</i> Lat. <i>pecus</i> , Sans. वशा <i>vaśā</i>
„ मुष्टि <i>muṣṭi</i>	
„ वर्चस् <i>varcas</i>	
	{ Sans. मूष <i>mūṣa</i> „ मेष <i>mēṣa</i>
	— „ मार्जार <i>mārjāra</i>

Sans. पक्ष <i>pakṣa</i>	—	{ Lat. <i>vacca</i> Sans. वस्त <i>basta</i> „ बक्ष्यणी <i>baṣkyaṇī</i> .
„ पुरीष <i>purīṣa</i>	—	{ „ पुरुष <i>puruṣa</i> „ पूरुष <i>pūruṣa</i>
„ विश् <i>viś</i>	—	{ „ विश् <i>viś</i> „ वेश <i>vēśa</i> „ वेश्या <i>vēśyā</i> „ विट <i>viṭa</i>
„ विष्टा <i>viṣṭhā</i>		

Again the word आत्मन् *ātman* is modified in Sanskrit as अस्मन्तम् *aśmantam* and in Persian آسمان *āsmān*, and this modification leads us to expect a similar one in the allied languages; and we accordingly find in Greek ασμινθος applied to a tub used for a hot bath (p. 141). In Greek and Latin the same word आत्मन् *ātman* is metamorphosed into κυμινον and *cuminum*, and though at first I did not know, yet by a continued search I succeeded in discovering the corresponding form in अजमोदा *ajamōdā* which is however not applied to cummin seeds but to bishop's weed (p. 142). If in Greek there exists a reduplicated form of κανθος as *vakivθος*, we hope to see a similar form in Sanskrit of the corresponding Sans. शोण *śoṇa*; and I have shown that the word कोकनद *kōkanada* is the required form, notwithstanding the apparent difference in the forms of these words (p. 150). In Kanarese the future participial adjective ends in *a* as well as the present and past participial adjectives; as, गेय्युव *geyyuva*, 'who will do.' This form is the most original and is variously modified as in Tam. செய்யு *śeyyum*. Analogy leads us to expect a form செய்யுவ *śeyyuvā* which,

however, does not exist. But the root *கடா* *kaḍa*, 'to pass,' gives the required form as *கடவு* *kaḍava*, which answers to Kan. *ಕಳಿವೆ* *kaḷiva* which is a contraction of *ಕಳಿಯುವೆ* *kaḷiyuva*. The Tam. *கடவு* *kaḍava* must therefore be a contraction of *கடக்கு* *kaḍakkuva*, originally *கடயு* *kaḍayuva* answering to Kan. *ಕಳಿಯುವೆ* *kaḷiyuva*. I can add a multitude of more instances, but what I have given is quite sufficient to prove the importance of the principle of analogy.

IV. The method of my study and observation is purely analytical and experimental, and though in possession of the rules and theories already given by ancient grammarians and lexicographers, I did not apply them in any case till I arrived at them by the very instances which I gathered during the course of my study. Care was taken to find corresponding words and grammatical forms in the allied languages and to institute close comparisons among them. I have thus been able to discover new laws of orthographical growth, decay and mutation, and by their means explain the etymologies of difficult words and the formations of complicated grammatical forms, of which some instances will be given lower down in this Introduction.

V. I have written a series of volumes under the designation of *NOTES ON ARYAN AND DRAVIDIAN PHILOLOGY* of which this is the first. It is entirely devoted to the description and illustration of the method of investigation which I have pursued. As the method consists in the analysis of the languages which are investigated, I have analysed the Sanskrit, Greek, and Latin languages into groups of allied words, and these groups are treated one after another. In conformity to the experimental and analytical character of my investigation, the above outline is filled



up with grammatical and etymological matters which are introduced for the illustration of orthographical or other processes in an order quite different from that in which they will be arranged in a synthetic grammar. Thus, for instance, the Latin perfect and pluperfect forms are explained under the heading of the Sanskrit word 'svādu' in the First Group, which is changed into 'suavis' in Latin by the change of *d* into *v*; and for the illustration of this process the above perfect and pluperfect forms are introduced (p. 78). But they will occur in a synthetic grammar in the chapter on Verbs and under the heading of Tenses. Again, the Greek perfect forms ending in *κα* as *πεφύκα* are introduced under the Sanskrit termination 'vas' which I suppose to have been changed in Greek into *κοτ* by the insertion of *k* for *v*; and this process is illustrated by the above perfect forms in which I discovered the same change and also the allied change of *य y* into *ka*.

VI. Words are of three kinds; first, those which are indivisible; second, those which are divisible and contain two parts, such as a root and a prefix, a suffix, or both; third, those that are composed of the above parts and contain in addition to them some orthographical outgrowths which are the excrescences in the natural development and growth of words. This classification is very important, inasmuch as we are dealing with a critical analysis of the words of kindred languages. The linguistic chemist, so to speak, must try to analyze a word completely and be able to account for the smallest residuum in the decomposition; and, in this analytical method, he must arrive ultimately at the most simple elements—elements which do not admit of a further analysis, nor contain common parts. In the synthetical method he must start from the simplest roots and derive words by the most natural processes.

This method has not been properly followed and is violated not only by the ancient but also by modern grammarians and philologists. To illustrate this linguistic aberration, I give here below a few instances.

VII. Pāṇini tells us that the augment आनुक् *ānuk* (आन् *ān*) is to be added to some masculine nouns such as इंद्र *Indra*, वरुण *Varuṇa*, &c., to get the feminine forms इंद्राणी *Indrāṇī*, वरुणाणी *Varuṇāṇī*, &c. But how is this particle derived? Is it an arbitrary and extraneous addition or a natural growth? The question can be easily solved, if we know the changes which स *s* undergoes in Sanskrit and other languages. The letter स *s* is changed into न *n* as in Pāli नस् *nas*, Sans. सस् *sas*, 'he'; एन *ēna*, एष *ēṣa*, 'this'; ज्ञातम् *gñātam* (prop. ज्ञातन् *gñātan*), Gr. γνωστον, in which *ov* comes from the masculine *os*; Sans. अहन् *ahan*, अहस् *ahas*, 'day;' and so on. From these examples we can clearly see that the स *s* of इंद्रस् *Indras* may be the source of the न *n* of इंद्राणी *Indrāṇī*. We may therefore derive the feminine form इंद्राणी *Indrāṇī* from the masc. इंद्रस् *Indras* by the addition of the fem. suffix ई *ī*; thus,—  
 इंद्रस् *Indras* + ई *ī* = इंद्रन् *Indran* + ई *ī* by the change of स *s* into न *n* and इंद्रान् *Indrān* + ई *ī* by the lengthening of the अ *a* preceding न *n*, and at last, इंद्राणी *Indrāṇī*. Similarly we may explain the feminine form Διωνη from Διος. While we connect Δεσποτης with दिवस्पति *divaspati*, 'lord of Heaven,' the feminine form Δεσποισα may be derived from दिवस्पत्नी *divaspatnī* which is shortened into

Δεσποτινῇ and then modified as Δεποτινῇ by the elision of τ, which is represented by *i* as in εἶμι for εσμι, and the change of the final η into *a*. Following the same theory we can derive पत्नी *patnī* from पतिस् *patis* + ई *i* = पतिन् *patin* + ई *i* = पत्न *patn* + ई *i* by the elision of the इ *i* preceding न *n*.

VIII. If all such forms may be explained by assuming the change of स *s* into न *n*, why should we bring in the unnecessary augment आन् *ān* (आनुक् *ānuk*)? Even supposing that there is such an augment, we do not get a physical explanation of this augment. Nor does it account for the form पत्नी *patnī* which is formed exactly like इन्द्राणी *Indrāṇī*, except as regards the process of the elision of the final इ *i* of पति *pāti*; nor for असिकी *asiknī*, 'a young female servant,' and पलिकी *paliknī*, 'an old woman,' of which असिकी *asiknī* = असितस् *āsitas* + ई *i* = असित्न् *asitn* + ई *i* = असित्नी *asitnī* by the elision of अ *a* preceding न *n*, असिकी *asiknī* by the change of त *t* into क *k*, असितस् *āsitas* meaning 'black,' (*sc.* in hair), therefore 'young,' and not 'old.' Similarly can be derived पलिकी *paliknī* from पलितस् *palitas*, 'grey,' that is, 'having grey hairs.'

IX. Again, according to Pāṇini आन *āna* (आनच् *śānac*) is to be added to an Ātmanēpadi root to form the present participle, and when the root takes अ *a*, य *y*, and अय *aya* before the verbal suffix ते *tē*, then *m* is inserted before आन *āna* after those augments. But I have compared these suffixes मान *māna* and आन *āna* with the correspond-

ing Gr. *μενος* and Lat. *bundus*, and *andus*, *endus* and *undus*, and ultimately traced them to the Sanskrit suffix *म्* *man*. (Vide p. 112.)

X. In the Tamil grammars, the *Tolkāppiyam*, the *Nannūl* and the like, a list of *சாரியைகள்* *sāriyaigal*, augments, is given, which, on a minute investigation, I have dissolved into simpler elements. Thus the augment *அன்* *an* in *வந்தான்* *vandanān*, 'he came,' is traceable to the demonstrative adjective *அனை* *anai*; for *வந்தான்* *vandanān* is composed of *வந்த* *vanda* and *அனன்* *anan*, *வந்த* *vanda*, the past participial adjective of *வா* *vā*, 'to come,' and *அனன்* *anan*, a contraction of *அனையன்* *anaiyan* = *அனை* *anai* + *அன்* *an*, meaning 'a man of that sort,' which, like the pronoun *அவன்* *avan*, is used merely as a personal suffix in the above verb *வந்தான்* *vandanān*. The so-called *குச்சாரியை* *kuccāriyai*, the augment *கு* *ku*, in *நடக்க* *nadakka*, 'to walk,' and *உரைக்க* *uraiikka*, 'to say,' springs from the *உடம்படுமெய்* *udambadumey v* and *y*, as the words are modifications of the original forms, *நடவ* *nadava* and *உரைய* *uraiya*, which are to be distributed respectively as *நட* *nada* + *அ* *a*, and *உரை* *urai* + *அ* *a*, and in which *v* and *y* are used to fill up the hiatus, and are changed into *க* *k*, which process prevails in the Aryan languages also, especially in Greek in which I have been able to explain some perfect forms by the analogy of the above Tamil forms. (pp. 116-118).

XI. In Telugu, we have such words as *మ్రాకు* *mrāku* 'tree,' *వలకు* *valacku*, 'beauty,' *కలకు* *kolaaku*, 'tank,' in which the particle *కు* *ku* is inorganically inserted in the singular optionally and in the plural necessarily. In the plural the part *ku* is an organic element and with the following part *ulu* is traceable to the Tamil plural termi-

nation *kaḷ* which is itself a corruption of the masculine plural pronoun *அவர் avar* shortened into *வர் var* and used as a personal suffix; and this connexion is clearly seen by comparing those forms with the corresponding Tamil ones, as *மூக்குல mrāckulu*, *மரங்கன் maraṅgal*, *வலக்குல valackulu*, *பொலங்கன் polaṅgal*, *கூலக்குல kolackulu*, *குளங்கன் kuḷaṅgal*. The identity of the plural forms *மூக்குல mrāckulu* and *மரங்கன் maraṅgal* can be easily seen. The Telugu language does not generally allow consonants at the end of words, but modifies them by the addition of the vowels *a*, *u* and *i*. Thus, the Tam. *மரங்கன் maraṅgal* becomes *மரங்களு maraṅgalu*, and the part *மரம் maram* being contracted into *மராம் mrām*, *மரங்களு maraṅgalu* assumes the form of *மரங்களு mrāṅkalu*. Compare Tam. *கடைக்கண் kaḍaikkāṇ*, Tel. *క్రేఁగన్నu krēcgannu*, 'a side-look;' Tam. *கீழ்த்தொடை kīḷttodaḍai*, Tel. *క్రిఁదొడ krīcdoda*, 'the lower thigh'; Tam. *பழங்கெம்பு paḷaṅkembu*, Tel. *ప్రఁగెంపు prācgempu*, 'old ruby'; Tam. *புதுச்சீரை puduccīrai* (properly *குதுச்சீரை kuduccīrai*<sup>1</sup>), Tel. *క్రొంజీర-kromjīra*, 'new cloth;' in which Tam. *கடை kaḍai*, *கீழ் kīḷ*, *பழம் paḷam*, and *புது pudu* are shortened in Telugu into *క్రే krē* (*క్రే kīḷē*), *క్రి krī* (*క్రే kīḷī*); *ప్రఁ prāṇ* (*ప్రఁ plāṇ*), and *క్రొ kro* (*క్రొ kdo*).

XII. Here I have to refer to another law of the Telugu language, viz., the law of the assimilation of vowels, according to which, contiguous vowels are assimilated as in *అడిగి aḍigi*, 'having asked' = *అడుగు aḍugu* + *ఇ i* = *అడుగ్*

<sup>1</sup> In the North Indian Vernaculars '*kōrā*' means 'new,' as in *kōrāpān*, 'newness,' and *కోడి kōḍi* is used by washermen in the sense of 'new cloth.' These are traceable to Tel. *కొత్త kotta*, and Tam. *పుத்த putta*, 'new.'

*adug* + ఇ *i*, then అడిగి *adigi* by the change of the vowel ఉ *u* of దు *du* into ఇ *i*. We have thus మ్రాంకలు *mrāṅkalu* becoming మ్రాంకులు *mrāṅkulu*, which is modified as మ్రాకులు *mrāckulu* by inserting the ardhānusvāra ̣ instead of the pūrṇānusvāra ̄. Similarly can be derived the forms వలకులు *valackulu* and కొలకులు *kolackulu*. [Vide Vol. II.]

But the Telugu grammarians analyzed them wrongly, distributing them as మ్రాకు *mrācku* + ఉలు *ulu*, వలకు *valacku* + ఉలు *ulu*, and కొలకు *kolacku* + ఉలు *ulu*, in which they thought *ulu* was the plural suffix and the remaining parts మ్రాకు *mrācku*, వలకు *valacku*, and కొలకు *kolacku* were stems in singular, and thus were compelled to add the particle *ku* to the singular forms of those words. But as there were already separate singular forms as మ్రాను *mrānu*, వలను *valanu*, and కొలను *kolanu* modified from the corresponding Tam. *மரன் maran*,<sup>1</sup> *பொலன் polan*, and *கூலன் kūlan*, the above inorganic addition of *ku* to the singular became optional.

XIII. Again the technical term *ఔపవిభక్తి* *aupavibhaktika* is invented to be applied to a class of so-called augments such as *i*, *ti* and *ṭi*, of which the first I hold to be a genitive singular suffix and the next two are composed of *t* and *i* and *ṭ* and *i*. The initial consonants of the latter two augments are modifications of the final *y*, *d*, *n*, *l*, *r*, and *ṛ* of nouns, owing to the addition of the suffixes *i*, *in* and the like. They sometimes spring from the final *n* of the casual suffixes ఇన్ *in* and అన్ *an*, which are changed into *iṭ* or *inṭ* and *aṭ*.

<sup>1</sup> The Tam. *ṣ n* is to be treated as *ṣ n* for all scientific purposes.

Thus, అలిచేతన్ *ālicētan*, 'by the wife,' corresponds to శ్చేతకాయాల్ *ālakaiyāl*, 'by the hand of person.' The *i* in అలి *ālī* is a genitive suffix and occurs in దానిచేతన్ *dānicētan* (Tam. அதன்கையால் *adankaiyāl*, Kan. ಎದರೈಯಿಂದ *adarakai-yinda*), and corresponds to the *a* of అడర *adara*.

చేతన్ *cētan* = చేయి *cēyi* + అన్ *an* = చేయ్ *cēy* + అన్ *an* = చేత్ *cēt* + అన్ *an*, in which య *y* is changed into త *t* as it is changed into స *s* in చేసి *cēsi* = చేయ్ *cēyu* + ఇ *i*. Compare Sans. एधिषीष्ट *ēdhiṣīṣṭa* for एधिषीस्त *ēdhīyīṣṭa*, and Gr. *Θετιδος* for *Θετιγος*.

కంటన్ *kaṇṭan* = కన్ను *kannu* + అన్ *an* = కన్న్ *kann* + అన్ *an* = కణ్ట్ *kaṇṭ* + అన్ *an*, by the change of the second *n* into ట *t* and the consequent change of the previous *n* into ణ *ṇ*. Compare Sans. स्वांतम् *svāntam*, 'heart' = स्वन् *svan* + अम् *am* = स्वन्नाम् *svannam*; Lat. *mentes*, 'mind' = *men* + *es* = *menes*; Tel. ఉండు *undu* = Tam. இர் *ir* + உ *u* = இந్ *in* + உ *u* = உన్ *un* + உ *u* = உన్న్ *unn* + உ *u*, = ఉన్ను *unnu*; Tel. పుండు *pundu*, 'sore' = Tam. புண் *pun* + உ *u* = పుణ్ణు *punnu* (Kan. ಹುಣ್ಣು *hunnu*).

Similarly comes *t* in వింటన్ *viṇṭan* = Tam. வில்லால் *villāl*,<sup>1</sup> 'by bow'; పంటన్ *paṇṭan* = Tam. పல்லால் *pallāl*, 'by teeth'; నడుటన్ *nudutaṇ*, Tam. நதலால் *nudalāl*, 'by the forehead,' (Sans. निटिल *niṭila*); వెంటన్ *veṇṭan*, వెన్నన్ *vennan*, Tam. வெளிநால் *verināl*, வெந்நால் *vennāl*, பின்னால் *pinṇāl*, 'by back.'

గోటన్ *gōṭan* = గోరు *gōru* + అన్ *an* = గోట్ *gōṭ* + అన్ *an*, Tam. உகிரால் *ukirāl*, 'by the nail'; similarly నీటన్ *nīṭan*,

<sup>1</sup> The stem వీల్ *vīl* becomes వన్ *vin* before అన్ *an*, so that విల్లన్ *vil-lan* = వన్నన్ *vinnan* and then వింటన్ *viṇṭan*. Similarly పంట్ *paṇṭan*.

Tam. நீரால் *nīrāl*, 'by water'; நெருட்டல் *nettutal*, Tam. உதிரத்தால் *udirattāl*, 'by blood,' (Sans. रुधिर *rudhira*.)

In the above examples the final *y*, *n*, *l*, and *r* of the Telugu nominal stems are changed into *t* and *ṭ*.

பேர்ப்பு *pēritan* = பேர *pēru* + ఇన్ *in* + అన్ *an* (Tam. பேரினால் *pērīnāl*) = பேர *pēru* + ఇట్ *it* + అన్ *an*, by the change of *n* into *ṭ*.

రెండింట్ *reṇḍintan* = రెండు *reṇḍu* + ఇన్ *in* + అన్ *an* (Tam. இரண்டினால் *iraṇḍināl*) = రెండు *reṇḍu* + ఇన్న *inn* + అన్ *an*, by the doubling of *n* = రెండు *reṇḍu* + ఇంట్ *int* + అన్ *an*, by the change of the second *n* into *ṭ* and the consequent change of the first *s n* into *ṣ ṇ*; also రెండింట్ *reṇḍi-*  
*tan* by the elision of *ṣ ṇ*.

సరసంపుటలక *sarasamputaluka* (Tam. సరాసత్తిన్ *sarasattin* + అగ్రుంకల్ *alunṅal*), 'amatory anger;' సరసంపుటలక *sara-*  
*samputaluka* = సరసమ్ *sarasam* (Tam. సరాసమ్ *sarasam*) + ఇన్ *in* (Tam. இன் *in*) + అలక *aluka* (Tam. అగ్రుంకల్ *alunṅal*), in which ఇన్ *in* is the genitive suffix. Here I have to observe that the final *am* of the Telugu and Tamil word *sarasam* is a neuter singular suffix corresponding to the *am* of Sans. दानम् *dānam* and *ov* of Gr. δῶπον, and *at* of तत् *tat*, 'that;' and, of these Aryan neuter singular suffixes *am*, *ov* and *at*, the Gr. *ov* is original, being directly traceable to the masculine singular suffix 'os.' When the genitive singular suffix *in* is added, the Tamil word changes its final *am* into *an*, corresponding to the Gr. *ov*; and hardens the *n* into *ṭ*, as is seen in Sans. तत् *tat*, so that సరాసమ్ *sarasam* + இன் *in* + అగ్రుంకల్ *alunṅal* = సరాసన్ *sarasan* + ఇన్ *in* + అగ్రుంకల్ *alunṅal* = సరాసన్ *saraann* + ఇన్ *in* + అగ్రుంకల్ *alunṅal* = సరాసత్ *sarasatt* + ఇన్ *in* + అగ్రుంకల్ *alunṅal*,



by the hardening of *nn*. But the Tel. *సరసమ్ sarasam* follows a different yet allied modification. Thus *సరసమ్ sarasam* + ఇన్ *in* + అలక *aluka* = *సరసమ్మ sarasamm* + ఇన్ *in* + అలక *aluka* by the doubling of the final *m* of *సరసమ్ sarasam*; then = *సరసమ్మ sarasamp* + ఇట్ *it* + అలక *aluka*, by the change of the second *m* into *p* and of the *n* of ఇన్ *in* into ట *t* = *సరసమ్మ sarasamp* + ఉట్ *ut* + అలక *aluka*, by the change of ఇ *i* into ఉ *u* as in గురువునకు *guruvunaku* = గురువి నకు *guruvinaku* (Kan. గురువింగి *guruvinge*, Tam. குருவிக்கு *guruvizku*) = గురు *guru* + ఇన్ *in* + అ *a* + కు *ku*.

Tel. మిరితన్ *miritan*, 'by elevation' = మిర్లు *mirru* + ఇన్ *in* + అన్ *an*, in which మిర్లు *mirru*, properly మిట్టు *mittu*, is a corruption of Tam. *மேடு mēdu* by the change of *tt* into *rr* as in కట్ట *karra*, Tam. *கட்டை kaṭṭai*, 'stick.' మిర్లు *mirru* + ఇన్ *in* + అన్ *an* corresponds to Tam. *மேடு mēdu* + இன் *in* + ஆல் *āl* and = మిర్లు *mirru* + ఇట్ *it* + అన్ *an* by the change of the *n* of ఇన్ *in* into *t* = మిరు *miru* + ఇట్ *it* + అన్ *an*, by the elision of one of the two *r*'s.

XIV. In the Kanarese Grammar, Śabdamanidarpaṇa, in the chapter on Verbs, it is said that the particles *అనేగం anegam* and *ఇనేగం enegam* are to be added to the participial adjectives to indicate time, as *బరువనేగం baruvanegam*, *బరువినేగం baruvinegam*, 'at that and this time when he, &c., will come'; *బందనేగం bandanegam*, *బందినేగం bandinegam*, 'at that and this time when he, &c., came.' But *అనేగం anegam* and *ఇనేగం inegam* are not particles but are nouns in the dative case. *అనే ane* and *ఇనే ine* are demonstrative adjectives, meaning 'that' and 'this' respectively, and correspond to

the Tam. *அதை anai* and *இதை inai* from which I have derived the demonstrative adjectives *அன்ன anna*, 'of that sort' and 'that,' and *இன்ன inna*, 'of this sort' and 'this,' and their modified forms *அந்த anda* and *இந்த inda* in Modern Tamil. By adding the dative suffixes Tam. *கு ku*, and Kan. *ಗೆ ge*, and the particles Tam. *உம் um*, and Kan. *ಅಂ am*, we get *அதற்கும் anaikkum* and *அதற்கு anegam*, radically meaning 'to that,' that is 'to that time,' and *இதற்கும் inaiikkum*, *ಇದற்கು inegam*, 'to this,' that is, 'to this time,' which latter is modified into *ಇங்கು inkam*, *ಇங்கನ inkan* and at last *ಇಂಕನ inkan* and *ಇங்கನ inkan* and means 'now' and hence 'here-after.' By adding '*anaikkum*,' and '*anegam*' to Tam. *வருவ varuva*, and Kan. *ಬರುವ baruva*, we get *வருவதற்கும் varuvanaikkum* and *ಬರುವದற்கು baruvanegam*, meaning 'to or at the time when he, &c., will come.' The *v* of the suffix *uva* being changed into *t* as in *ಅವನು avanu*, *ಆತನು ātanu*, 'he,' *ವருவதற்கும் varuvanaikkum* becomes *ವರುತ್ತದற்கும் varundanaikkum* and *ಬರುವದற்கು baruvanegam* *ಬರುವತನಕ baruvatanaka*, and this yields the Tel. *ವచ్చುತನಕ vāccūtanaka*.<sup>1</sup>

XV. Again the particle *ಅಲೊಡಂ aloḍam* is to be added to any root to indicate the time of completing the action. Thus *ಗೈಯ್ದ ಅಲೊಡಂ geyyalōḍam* means 'after doing' = Tam. *செய்ய லுடன் ſeyyaluḍan*. Comparing these two expressions we can easily see that the Kan. *ಅಲೊಡಂ aloḍam* = Tam. *அலுடன் aluḍan* in which the first part *அல் al* belongs to the verbal noun *செயல் ſeyal* (Kan. *ಗೈಯ್ದ geyyal*), 'the act of doing,' and *உடன் uḍan* (Kan. *ಅಡಂ oḍam*) is the instrumental suffix

<sup>1</sup> The latter part of this expression, viz. *ತನಕ tanaka*, is modified in Hindustani as *تک tak* by the elision of *n*, and *تالک talak* by the change of *n* into *l* and means 'till.'

meaning 'with' or 'immediately after.' What an unscientific analysis and distribution! In Tamil no one would commit such an error. The Kanarese Grammarian, however, did not know the analysis of the expression and distributed it wrongly.

XVI. Such were the errors and mistakes of the ancient grammarians and philologists, and they have been handed down to us without any correction whatever. The duty of the philologist is to enquire into the nature and composition of every grammatical form and the etymology of every derivative word. Following this principle, I have been able to discover the affinities of many words and grammatical forms in the Aryan and Dravidian languages and have thus thrown much light on subjects which have remained in deep obscurity, in spite of all the attempts of lexicographers, grammarians and philologists.

XVII. The subject of this volume, as already mentioned, is the method of linguistic investigation pursued by me; and with the description and explanation of this method the book begins. Then follow lists of groups of words which are introduced to illustrate the method. The first list contains five groups each of which includes the corresponding words of the allied languages of the Aryan family, which are similar in form, and convey the same or allied ideas. The second contains the corresponding words of allied languages which express the same ideas and are allied in form. In the third are given the allied grammatical forms of the kindred languages, and I have then discussed the peculiarities of conjugation and proposed a new classification of them instead of the old. The First, Fourth, Sixth and Tenth are brought under one class, and the Second includes the Third, Seventh and the Yānuganta or the

frequentative without any augment. The Fifth is referred to a separate class with the augment *u*, and the *n* of the so-called augment नु *nu* (अनु *śnu*) has been shown to spring from a radical nasal and is therefore organic. In this class is included the Eighth which inserts *u* before the personal suffixes. In the Ninth class, the root ज्ञा *jñā* is shown as belonging to the Second, as the part जाना *jānā* of जानाति *jānāti* is only an organic development of ज्ञा *jñā* by the insertion of आ *ā* between ज *j* and ञ *ñ* and the consequent change of ञ *ñ* into न *n*. Compare Gr. γυνῶμι and Sans. जानीहि *jānīhi*. In the remaining roots मन्थ् *manth*, ग्रन्थ् *granth*, &c., the radical nasal is transposed to the end, and when आ *ā* is added before the personal suffixes, such as ति *ti* and ते *te*, we get मथन् *mathn* + आ *ā* + ति *ti* = मथ्नाति *mathnāti* and ग्रथन् *grathn* + आ *ā* + ति *ti* = ग्रथ्नाति *grathnāti*. In the Seventh the vowel अ *a* is inserted between the last consonant of the root and a preceding nasal, so that we get *na* in the midst of the root, which is wrongly treated as an augment. But in the Ātmanēpadi roots no augment is inserted, so that we get such forms as रण्डे *runddhē* from रण्ड् *rundh* + ते *tē*.

According to my system, therefore, there are five classes, the First, the अ *a* class; the Second, आ *ā* class including the original Ninth class (आविकरण *śnāvīkaraṇa*) and the subjunctive forms as भवति *bhavāti*; the Third, इ *i* class which inserts इ *i* before the augment ति *ti*, as षसिति *śvasiti*, अनिति *aniti* and the like; the Fourth class which inserts

ई as ब्रवीति *bravīti*, बोभवीति *bōbhavīti* and such forms as अब्रवीत् *abravīt* and अबोभवीत् *abōbhavīt*; the Fifth, उ *u* class in which उ *u* is added to the root, as कुरुते *kurutē*, तरते *tarutē*, अश्नुते *aśnutē* and the like.

XVIII. The etymological importance of my researches is as great as the historical, ethnological, and mythological. Etymology is to Philology what Chemistry is to Physical Science. It is the essential part of a dictionary, and the science of grammar is based upon a right etymology. But lexicographers and grammarians did not follow a strictly scientific method in their investigations. They assigned wrong and fanciful derivations to words and analyzed the grammatical forms in a way quite contrary to the fundamental laws of philology; and, in consequence, many errors have crept into the works of most writers on languages and grammars and dictionaries. It is therefore the duty of every philologist to follow a strict method of investigation, and establish a system of sound principles derived from carefully analyzed facts. The etymology so established should be introduced into grammars and dictionaries. I need not bring in here examples, as every page of my work contains some illustrations of what I say. Such a critical investigation furnishes us with a set of psychological and orthographical rules by which we can determine the root of many a doubtful word and explain the construction of many a difficult grammatical form. We have been lately favoured with an Etymological Dictionary of the English Language by Mr. Skeat, Professor of Anglo-Saxon in the University of Cambridge. It has been compiled with great learning, and the author has therein embodied the results of the researches of many etymological scholars, and, in that way, has done a good service

to the language. But in many cases, however, he has not settled the etymologies of words; and the failure must be attributed to the want of some definite rules to guide. Such rules can be derived only by a scientific comparison of the words and grammatical forms of a language with one another and with the corresponding ones found in the other allied languages of the family, as has been attempted in this work.

XIX. For instance, in the Second Group, that is, the *Siras Group*, we arrive at a conclusion that in the Aryan languages the words for 'head,' 'crown,' 'hair' and 'horn' are allied and spring from the Sanskrit root शिरस् *śiras* and Gr. *καρ*. If we refer to the Etymological Dictionary of Mr. Skeat for the etymology of the word 'crest' we can see there many allied words given under it and, among others, Lat. '*crista*' with which it is ultimately connected by the author; but with regard to the derivation we learn nothing, for the author says that 'the root of the word is uncertain.' The fact above mentioned, however, settles the etymology, as the word '*crista*' is only '*cris*' in another form, and means 'hood.' In form it is allied to Gr. *καρ*, *καπα*, *κορυς*, *κρασ*, *κρανον*, and *καυτη*; Sans. शिरस् *śiras*, शृङ्ग *śṛiṅga*, कच *kaca*, and केश *kēśa*; Lat. *caput*, *crinis*, *cæsaries*, and *cornu*; which words mean 'head,' 'hair,' 'horn,' or 'crest.' Now applying the analogy we can connect the Lat. *crista* with the corresponding Sanskrit and Greek words mentioned above and derive it by the addition of the suffix *a* to *κρασ*. Thus *κρασ* + *a* = *κρασσα* = *क्रισσα* = *krista* = *crista*.

XX. Referring to the Dictionary for the derivation of the English word 'hair,' we learn that the word is found in many other forms and that the author is not certain about

its root. Now, applying the above rule, we can easily suppose that English, which is mainly an offshoot of Anglo-Saxon, one of the languages of the Aryan family, must contain the corresponding words used in the respective ideas, and a slight acquaintance with English will suggest to any person the most common words 'head,' 'horn,' and 'hood,' 'hair.' The first and second of these words are evidently connected with the Gr. *κεφαλη* and Lat. *caput*, and Gr. *κρᾶνον* and Lat. *cornu* respectively. 'Hood' is allied to Sans. कौटि *kōṭi*, Gr. *κωδία*, 'top,' चूडा *cūḍā* and चूला *cūlā*, 'crest,' and has changed the initial क *k* of कौटि *kōṭi* into *h*, as the word 'head' itself has done with the *k* of *κεφαλη*. There can be no doubt that the English word *hair* and Anglo-Saxon 'hair' and 'her' are modifications of *καπα*.

Under the word 'hat' he gives the allied words such as the Ang-Sax. 'hæt,' Dan. 'hat,' Icel. 'hattr,' and observes that it is probably connected with Lat. *cassis*, 'helmet,' which he derives from *skad*, 'to cover,' and cautions the reader not to confound the word with *kut* which is cognate with Eng. 'hood.' But by the rule above mentioned we can at once settle the derivations and connect *hat*, as well as Lat. *cassis*, with Sans. कौटि *kōṭi*, 'top.'

XXI. Under the word 'cap' which agrees in meaning with 'hat,' though apparently differing in form, the author mentions some allied words such as *cape*, *cope* and Lat. *coppa*; but as these are in form and meaning allied to Sans. शिफा *śiphā*, 'head,' and शफ *śapha*, 'hoof,' of which the Eng. 'hoof' is a modification, they may be easily traced to the latter.

XXII. In the First Group, I have derived from आत्मन् *ātman*, स्व *sva*, 'own,' 'possession,' स्वर *sva*, 'heaven,' modified as सुवर *suvar*, and सुमेर *sumēru*, and contracted

into मेरु *mēru*, तमन् *tman*, &c., meaning 'self,' 'soul,' 'spirit,' 'smell,' 'wind,' 'region of wind,' 'sky,' 'clouds,' 'water,' &c., and I may lay down a general rule to the following effect, that words which are similar to the above words in form and convey the above and allied ideas are allied to each other and are ultimately traceable to आत्मन् *ātman*. Referring to the Dictionary of Mr. Skeat for the etymology of the word 'heaven,' we learn that it has allied forms in M. E. *heuen*, Ang.-Sax. *heofon*, *hiofon*, *hefon*, O. Icel. *hifinn*, and is of unknown origin. But its connexion with Sans. स्वर *svar*, सुवर *suvar* and Gr. Ολυμπος is settled by the above rule. (Vide p. 20.)

XXIII. With reference to the origin of the word 'have,' we are informed by the lexicographer that it is from the Teutonic base, 'hab.' This root he connects with the Lat. *capere*, 'to seize,' 'to hold'; Gr. *κωπη*, a handle; and the original idea must accordingly be 'to take' or 'to hold.' But by the above rule I would connect the word with Sans. स्व *sva* (Gr. *ιδιο*) of which Lat. *haveo* is a developed form by the change of स *s* into *h* and the insertion of the vowel *a* between स *s* and व *v*. (p. 14).

XXIV. Under the words 'self' and 'soul' he gives many allied words of the kindred languages and traces them to their original Teutonic sources, *selba* and *saivala*, respectively, and observes however that their origins are unknown. We can, however, conclude, *primâ facie*, that the two words must be the different forms of the same word as they are identical in form, except that the final consonant of *saivala* is metathetically transposed to the middle of the word; and this *primâ facie* conclusion is thoroughly established by the above rule by which they can be both connected with आत्मन् *ātman*.



XXV. Mr. Skeat traces the word '*smell*' to its original form *smoran*, 'to suffocate,' which ends with *r* instead of *l*. From आत्मन् *ātman* we get Sans. बाष्प *bāṣpa* (originally आस्प *āspa*) and Lat. *vapor*, Gr. *ατμος* and *ατμης*, 'vapor,' and नभस् *nabhas* meaning 'clouds,' 'vapour,' &c.; and we can, according to the rule, connect '*smell*' with Lat. *sibilus*, Sans. श्वस् *śvas*, and त्मन् *tman* from which last is derived the verb ध्मा *dhmā*, 'to blow.'

We can thus see the great utility of the method of investigation pursued by me and of the fundamental general rules of philology which are derived from the classification and the analysis of allied words according to that method. By the application of the rules to the other languages of the Aryan family, we can settle the etymologies of the corresponding words of those languages.

XXVI. The application of the rule may not be confined to the Aryan languages. I suspect very strongly that there must be more connection between the Aryan and Semitic families than hitherto discovered, perhaps, sufficient to warrant a radical union between them in one family. The Semitic languages have not yet been subjected to a scientific analysis by philologists. The laws of constructing words and grammatical forms, which present a striking contrast to those prevailing in the Aryan languages, have not been properly accounted for. The way in which they are enunciated are most unscientific in appearance. Unless these laws are simplified and reduced to fundamental facts, they must remain in deep oblivion. Take, for instance, the laws of *guṇa*, *vṛddhi* single and double, reduplication of radical forms, the insertion of the augment *a* in past tenses at the beginning of roots and so on, which were so

many arbitrary processes as they were treated in our Sanskrit and Greek grammars, and which, when they were analyzed and simplified, appealed to our reason.

We learn from the English grammars that the roots *rise*, *lie* and *sit* are changed into *raise*, *lay* and *seat* respectively in the causal; and the vowel changes which take place seem to be arbitrary. But when we refer them to the general laws of lengthening the vowel of the first syllable of a word, which are in Sanskrit called *guna* and *vrddhi*, we understand them better. There are many similar grammatical and verbal peculiarities in the Aryan languages, and, unless they are reduced to most general laws and are thus explained, they must remain arbitrary and unreasonable.

The same must be the case with the Semitic languages. "In no language," says Dr. Bresslau, "are found words and roots with so various and not unfrequently with opposite significations as in the Hebrew, besides the peculiarities in that remarkable tongue arising from the various paradigms." What is the cause of this? Why should there be so many roots which are not found in the actual usage? The limited comparison which I have instituted between the Aryan and the corresponding Semitic words leads me to think that there must be an ultimate connection between the Aryan and the Semitic languages. When the nation speaking these languages separated, the nucleus common stock must have been replenished with new matters which grew naturally and were created arbitrarily. A portion of the difference can be explained by reference to the ignorance of the ancient grammarians and lexicographers who had a system of traditions and beliefs regarding the language, instead of a scientific grammar and etymology; roots were coined to assign some etymon to every word, and grammatical forms were wrongly analyzed and new

forms, coined on wrong analogies. When these were incorporated with the language, there arose some inconsistencies and complicacies which have eluded the closest scrutiny of philologists. This is the case with the Aryan languages, and must be equally so with the Semitic languages also.

Let us see how far we can compare the Aryan and Semitic words. In the Aryan languages the word **आत्मन्** *ātman* originates words expressive of the following ideas:—‘sky, light, sun, day, wind, breath, deity, time, happiness, peace, health, colours such as white, yellow, and the like, beautiful, shining, burning, strength, youth, &c.’ The words so derived resemble, both in form and meaning, the corresponding Hebrew and Arabic words :

Heb. <i>Šabath</i> , ‘rest,’	Sans. <b>स्वस्</b> <i>svas</i> , ‘happiness.’
„ <i>Selam</i> , ‘peace,’	„ <b>शर्मन्</b> <i>śarman</i> , „
„ <i>Gabar</i> , ‘to be strong,’	{ „ <b>कुमार</b> <i>kumāra</i> , ‘young.’ Gr. <i>οβριμος</i> , ‘strong.’
„ <i>Balag</i> , ‘to shine,’	
„ <i>Samar</i> , ‘to watch,’	Sans. <b>भ्राज्</b> <i>bhrūj</i> .
„ <i>Safar</i> , ‘to shine,’	„ <b>स्मील</b> <i>smīl</i> , ‘to close the eye,’ the idea of closing the eye arising from that of winking.
„ <i>Semes</i> , ‘sun,’	„ <b>ज्वाल्</b> <i>jval</i> , ‘shine.’
„ <i>Sua</i> , ‘to be rich,’	„ <b>दिवस्</b> <i>divas</i> , by the change of <b>द</b> <i>d</i> into <b>ट</b> <i>ṭ</i> as in ‘ <i>Sen</i> ,’ <b>दन्त</b> <i>danta</i> , ‘teeth.’
„ <i>Nafaṣ</i> , ‘to breathe,’	„ <b>स्व</b> <i>sva</i> , ‘possession.’
„ <i>Nefes</i> , ‘breath,’	„ <b>नभस्</b> <i>nabhas</i> , ‘wind.’
	„ „ „

Heb. <i>Ṣahan</i> , 'to be hot,'	Sans. खर् <i>svar</i> , ज्वल् <i>jval</i> , 'to shine.'
„ <i>Ṣem</i> , 'Third son of Noah.'	„ देव <i>dēva</i> , 'a deity,' (compare <i>ṣen</i> , <i>ṣafar</i> , <i>ṣemes</i> , above given).
„ <i>Laban</i> , 'white,'	„ श्वेत <i>śvēta</i> .'
„ <i>Ṣaban</i> , 'tender,'	„ कोमल <i>kōmala</i> , 'soft.'
	Gr. <i>ἀβρος</i> , 'delicate.'
„ <i>Ṣuṣ</i> , 'to be white,'	„ शुष् <i>śuc</i> , 'to be pure.'
	„ शुचि <i>śuci</i> , 'white.'
„ <i>Yōn</i> , 'wine,'	Gr. <i>οἶνος</i> , 'wine.'
„ <i>Zaphah</i> , 'to look out,'	Sans. स्पृश् <i>spaś</i> , 'to see.'
„ <i>Ur</i> , 'light,'	„ उषा <i>uṣā</i> , 'dawn.'
„ <i>Saraf</i> , 'to burn,'	„ ज्वर् <i>jvar</i> , 'to be hot.'
„ <i>Ṣafir</i> , 'beautiful,'	„ ज्वल् <i>jval</i> , 'to shine.'
„ <i>Barak</i> , 'lightning,'	„ भ्राज् <i>bhrāj</i> , 'to shine.'
„ <i>Faz</i> , 'refined as gold,'	„ भास् <i>bhās</i> , „
Arab. <i>Lebbek</i> , 'God,'	„ दिवस् <i>divas</i> , द्यौस् <i>dyaus</i> , 'God of Heaven.'
Heb. <i>Baaz</i> , 'fleetness,'	Gr. <i>βίος</i> , 'strength.'
„ <i>Ṣabah</i> , 'to extol,'	Sans. सभाज् <i>sabhāj</i> , perhaps स्वस् <i>svas</i> , 'happiness,' the original idea being 'to please.'
„ <i>Yom</i> , 'day,'	„ व्योमन् <i>vyōman</i> , 'sky.'

XXVII. In its bearing on Comparative Mythology the system of linguistic analysis adopted by me is very important and, in my opinion, will be attended with good results.

The Science of Comparative Mythology was, as it were, created by Prof. Max Müller and Mr. Cox, whom we ought to call fathers of the science as far as England is concerned. By comparing the Vedic theogony with the Homeric and Hesiodic versions and also their modified forms among the Teutonic and other branches of the Aryan nations, they have found a close alliance not only in the various details of the stories told concerning the personages connected with the theogonies, but also in the names applied to some of them. We know how each myth and story of a nation has a corresponding one in those of the other kindred nations kept up intact in its full integrity, slightly modified, or entirely metamorphosed into new shapes, and how the same myth among the same nations assumes a variety of forms, in each of which the nucleus of the story is repeated. Thus, for instance, in the Hesiodic theogony the 'Earth' under the names of *Gaia*, *Terra*, *Rhea*, and *Hera* becomes the wife of *Chaos*, *Ouranos*, *Cronus* and *Jupiter*, respectively. But these alliances are psychological and ethnological; and there is yet a connexion which is wanting, and that is formal or philological. We do not know why *Zeus* and द्यौस् *Dyaus*, *Uranus* and वरुण *Varuṇa*, *Hera* and इरा *Irā*, *Olumpos* and स्वर् *Svar*, and other personages who figure in the Aryan theogonies are so called. Are such corresponding names significant or mere words coined to be applied to an individual deity? But a scientific investigation of languages will clearly show that the latter can never be the case. Language is the result of a physical development of sounds and not an arbitrary and conventional growth. Most of the proper names of languages must be common names expressive of some particular idea, and, in spite of the apparent difference in their forms, can be traced to a few roots. This is the conclusion arrived at

by my analysis of Sanskrit, Greek and Latin. I have assigned proper etymologies to the names of many deities who figure in the Vedas of Sanskrit and in the poems of Homer, Hesiod and Virgil. Many of the names have been traced to the word आत्मन् *ātman* which represents the First Group ; some, to the word शिरस् *śiras* which represents the Second Group ; and some, to वृषन् *vṛṣan* from which originate all the words of the Third Group.<sup>1</sup> As a psychological

<sup>1</sup> I give here a list containing the most important of the proper names derived in the book :—

A	Baseleus	<i>Dusyanta</i>	Hercules
Achaian	<i>Bālakhilya</i>	<i>Dyauṣ</i>	Hesperos
Achilles	<i>Bāṣkala</i>	<i>Dyōtanā</i>	Hestia
<i>Aditi</i>	<i>Bhāradvāja</i>		Hippotes
Adrueades	Boiōtos	E	Hippotades
Æthra	<i>Brahman</i>	Echidna	Huakinthos
<i>Agastya</i>	Breareōs	Eos	Humen
<i>Agni</i>	<i>Brhaspati</i>	Epiros	Huperion
<i>Ahalyā</i>		Europa	
<i>Ahanā</i>	O	Evadne	I
Ahura	Caia		Ialkos
Ajax	Caius	F	Iapetos
Aithra	Chaos	Faunus	Iason
Angellos	Cheiron		Ida
<i>Angiras</i>	Coeus	G	Idunia
Apollon	Cohus	Ga	Ilia
<i>Apsaras</i>	Cottos	Gaia	Ilion
Arethusa	Covella	<i>Gandharva</i>	Ilos
Argos		<i>Gautama</i>	<i>Indirā</i>
Ariadne	D	<i>Gmā</i>	<i>Indra</i>
Arthur	Da	<i>Gnā</i>	Ino
Asana	<i>Daitya</i>	Gua	Iokaste
<i>Asara</i>	Danae	Guges	Ion
<i>Asura</i>	Danaos		Isis
Athamas	<i>Dānava</i>	H	Italia
Athēnē	<i>Danu</i>	Hamadruades	Italos
Atlas	Despoina	Hanvanu	
<i>Atreya</i>	Despotes	Heaven	J
<i>Atri</i>	Diana	Hebe	Jacob
Atrides	Diipetes	Hector	Japheth
Atrius	Dikte	Hekatos	Javan
	Diōnē	Helios	Jebus
B	Dis	Hellas	Jehoshua
<i>Bādarāyana</i>	<i>Diti</i>	Hellen	Jehova
Barbaros	Dionnsos	Hera	Jehu

connection has already been proved to exist among these names, so I have argued a philological one among them and made their alliance complete. Making allowance for the affinities and kindredships founded on accidental coincidences and resemblances of forms, a great part of my etymology seems, in my humble opinion, to be correct. If so, a connecting link is established by which we can thoroughly unite the myths of all the Aryan nations who were originally living together and are now separated by thousands of miles.

Twenty years ago Professor Max Müller traced the various forms of *द्यौस् Dyavus* and *Zeus* in the Aryan languages.

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Jehudu	M	Peleus	T
Joseph	<i>Maināka</i>	Penelope	Tanau
Judah	<i>Mēna</i>	Phaethon	<i>Tanūnapāt</i>
	<i>Mēru</i>	Phrugia	Tethus
K	Minos	Pieros	Thebai
<i>Kailāsa</i>	Minotauros	Psuchē	Theos
<i>Kanṭhīrava</i>			Thesbes
<i>Kanva</i>	N	R	Theseus
<i>Kapila</i>	<i>Naiades</i>	<i>Rāma</i>	Thessalia
<i>Kāśyapa</i>	<i>Namuci</i>	<i>Rambhā</i>	Thetis
<i>Kavi</i>	<i>Naraka</i>	<i>Rbhukṣan</i>	Titan
<i>Kārtavīrya</i>	Narkissos	Remus	Tithōnos
Kentauros	Nephele	Rhea	Tituos
Kerberos	Neptanus	Roma	Triton
<i>Kinnara</i>	Nereides	Romulus	
<i>Kirāta</i>	Nereus	Romus	U
Koios	Nessos		Ulysses
<i>Kōkanada</i>	Niobe	S	Ulyxes
Kolossos	Notos	<i>Sagara</i>	<i>Uśanas</i>
Kosmos		<i>Saindhava</i>	
Krōnos	O	<i>Samīra</i>	V
<i>Kumāra</i>	Odusseus	<i>Saramā</i>	<i>Vivasvan</i>
	Oidipous	<i>Sarasvatī</i>	<i>Vrabhadra</i>
L	Olumpos	Sarpedon	
Laitma	Osiris	Saturos	W
Latinus	Ouranos	Serapis	Woden
Latium		<i>Sindhu</i>	Wuotan
Latmus	P	<i>Siva</i>	Y
Latona	<i>Pan</i>	<i>Sivā</i>	<i>Yakṣa</i>
Lemures	<i>Parāśara</i>	<i>Sumēru</i>	<i>Yavana</i>
Lykos	Pegasos	<i>Sura</i>	Z
Lyktos	Pelagos	<i>Sūra</i>	Zephuros

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His method suggested to me the possibility of making more comprehensive groups of the same kind. Attempts were already made to discover the origin of the Mythological names of the Aryan languages. Several words are derived by Mr. Cox in his *Aryan Mythology* and his *Introduction to Mythology and Folklore*, and part of his etymology is very creditable to him. Mr. Gladstone, in his '*Juventus Mundi*,' refers to a book published by M. Jacoliot, which he, however, considers as untrustworthy. "It would be," he says, "a matter of great interest to know how far, apart from any theory, the names of the Hellenic divinities are really derivable from the Sanskrit: and in the recent work of M. Jacoliot, '*La Bible dans l'Inde*,' a list of many of them is given with Sanskrit roots, in many cases seemingly appropriate." Certainly it must be in Sanskrit alone which is the most ancient and most cultivated of the Aryan languages that the etymology must be sought, and the failures of scholars who have tried to seek in that language the etymons of the names of the Vedic and Hellenic characters must be attributed to the erroneous methods they pursued, and not to any other cause.

It is really astonishing to see that the roots from which the proper names have sprung are not many and are very limited in number. It is equally astonishing that the names applied to many of the Vedic and Hellenic deities have been evolved from the word आत्मन् *ātman*, 'sky,' the prevailing radical idea of those words being 'heavenly' or 'bright.' Most of the names of the water deities are metamorphoses of the word सलिल *salila*, Gr. ἄλς. We are not the less surprised when we see that the names of R̥ṣis, such as पराशर *Parāśara*, भारद्वाज *Bhāradvāja*, बाष्कल *Bāṣkala*, बालखिल्य *Bālakhilya*, पैल *Paīla* and बादरायण *Bādarāyaṇa*, गिरिश *Giriśa*, the name of Śiva,



कैलास *Kailāsa*, the name of the mountain in which he dwells, are traceable to the word शिरस् *śiras* from which have been derived the words गंधर्व *Gandharva*, *Kentauros*, *Satyr*, *Chiron* and *Cronos*.

XXVIII. Finally, I shall mention some linguistic and psychological conclusions to which my investigations lead. There may be errors committed by me and they may require corrections from competent scholars. This circumstance, however, does not much affect the conclusions which I am going to mention. By the analysis adopted by me, it would appear that the Aryan languages can be reduced to a few groups of allied words, of which five have already appeared in this volume, and a few more groups will be introduced in the succeeding volumes. In the treatment of the subject my intention has been to simply point out the application of the method and give a few important instances. The analysis was applied to Sanskrit, Greek, Latin and Anglo-Saxon, and, among these too, importance was attached to Sanskrit as the oldest and nearest representative of the mother language of the Aryan family. In some places Greek and Latin words corresponding to the Sanskrit have not been given, and left to be learnt from the existing dictionaries; and they will all be included in my 'Comparative Lexicon' which is under preparation. It can be easily seen that each word of each of the other allied languages of this family must be included in the group, in which the corresponding words of Sanskrit, Greek and Latin have been included. Perhaps the few groups to which I have tried to reduce all the allied languages may be split into more groups by the separation of some words wrongly included in one group. But this does not materially affect the conclusions which I am going to mention. The whole vocabulary of the Aryan languages has been

evolved from a small number of words. What that number is we cannot determine; nor is it necessary to do so. A more important and surprising conclusion is that not only the whole vocabulary of languages has sprung from a few words, but also the very grammatical elements are traceable to one word **आत्मन्** *ātman*! I have shown, for instance, that the nominative, accusative, and genitive suffixes are remnants of the pronouns **स** *sa*, 'he,' and **स्व** *sva*, 'own,' and these are ultimately traceable to **आत्मन्** *ātman*. The conjugational suffixes, most of the personal pronouns and the majority of suffixes added to nouns and verbs to form derivative words, have been traced to the same source. In short, the greater part of the grammatical machinery has been traced to the single word **आत्मन्** *ātman*.

XXIX. It has been shown also that most of the verbs have sprung from nouns. In the *Ātman* Group itself have been derived many important and primitive verbal roots, as **इष्** *śubh*, **स्वप्** *svap*, **सुख्** *sukh*, **दीव्** *div*, **जीव्** *jiv*, **दीप्** *dīp*, **द्युत्** *dyut*, **ज्युत्** *jyut*, **त्विष्** *twiṣ*, **ट्रप्** *trp*, **द्रप्** *drp*, **लस्** *las*, **लक्** *lakṣ*, **लज्ज्** *lajj*, **हस्** *has*, **द्रश्** *drś*, **रुक्** *ruc*, **लोक्** *lōk*, **लोक्** *lōc*, **स्पश्** *spāś*, **खद्** *savd*, **पच्** *pac*, **मृड्** *mṛd*, **भास्** *bhās*, **भी** *bhī*, **ज्वल्** *jval*, **तप्** *tap*, and **क्षिप्** *kṣip*; in the *Sakila* Group **सिंश्** *siñc*, **उंद्** *und*, &c.; and in the *Vṛṣa* Group **मुष्** *mumṣ*, &c. It has been supposed by many that verbs must have preceded nouns, and this theory has been the source of many etymological and grammatical blunders. It will, however, be overthrown by the above and other examples. The word *heaven*, for instance, was hitherto derived from *heave*, 'to lift,' but I have shown in the book

clearly that the contrary is the fact and that *heave* is derived from *heaven*. The importance and utility of the discovery is seen to a greater extent in the last three verbs, **उद्** *und*, **सिञ्** *siñc* and **मुष्** *munṣ*. In the *Salila* Group **उद्** *und* and **सिञ्** *siñc* have been derived from **उदन्** *udan*, 'water,' and **शीकर** *śīkara*, 'drop,' respectively. **उदन्** *udan* is connected with **वरुण** *Varuṇa*, *Oupavos*, *Οκεavos*, **इन्द्र** *Indra* originally a water god, &c., and **शीकर** *śīkara*, with **सागर** *sāgara*, 'ocean,' **लहरी** *laharī*, 'wave,' **लवण** *lavana*, 'salt,' **सिकत** *sikata*, 'sands,' **जंबाक्ष** *jambāla*, 'mud,' *λμην*, 'harbour,' **रुमा** *rumā*, 'salt ocean,' **रुमन्** *ruman*, 'salt.' In **उद्** *und*, the final *n* of **उदन्** *udan* is transposed to the middle of the word, and in **सिञ्** *siñc* the final *r* of **शीकर** *śīkara* is similarly transposed and changed into *n*. We thus see that the nasal in **उद्** *und* and **सिञ्** *siñc* are radical. The conjugational form **उनत्ति** *unatti*, third per. sing. indicative, must therefore be distributed as **उन्** *un* + **अ** *a* + **द्** *d* + **ति** *ti*, in which **अ** *a* is inserted between the nasal and the following **द्** *d*, and to the root thus modified the personal suffix **ति** *ti* is added. According to this analysis the form must belong to the second conjugation, **लुग्विकरण** *Lugvikarana*, and is not a separate conjugation (vide p. xx, *supra*). With regard to the root **सिञ्** *siñc*, we must have it enunciated as **सिञ्** *siñc* and not as **सिञ्** *sic* as has been done in the *Dhātupāṭha*. As for the root **मुष्** *munṣ*, it is enunciated as **मुष्** *muṣ* and in the conjugational form

मुष्णाति *muṣṇāti*, we have to add according to Pāṇini आ *ā* (आ *ānā*) to the root and derive the form from मुष् *muṣ* + ना *nā* + ति *ti*. But according to my analysis the form मुष्णाति *muṣṇāti* is to be distributed as मुष् *muṣ* + आ *ā* + ति *ti* by the transfer of the nasal to the end of the root in the form of *n*; for मुष् *muṣ* is borrowed from मूष *mūṣa* (μυσ) 'rat,' because the idea of stealth was represented by the action of a rat which takes away food and edible substances without the knowledge of the household. मुष् *muṣ* must be a nasalized form of मुष् *muṣ* as पुंष् *puṁṣ* is of वृष् *vr̥ṣa*. (Vide the *Vṛṣa* Group, and p. xx, *supra*).

XXX. We thus see that the majority of verbs have been derived from nouns only. It may be objected that the Sanskrit Dhātupāṭha contains about 4,000 roots, and that they cannot at all be derived from nouns. The objection, however, may be removed by supposing that the Dhātupāṭha is a grand attempt to derive every Sanskrit word from a primitive root; and this fact will be clearly seen by any one who studies the Uṇādisūtra and the commentaries on the Nighaṇṭus (Lexicons). In this attempt hundreds of roots which had never existed in the language have been created arbitrarily; and this unnatural element was incorporated with the language, especially in its secondary stage (Classical Sanskrit). A critical analysis, therefore, of the language must exclude all the alien elements.

XXXI. With reference to the psychological or logical part of the results of my investigation, I have to remark that, assuming that thought and language progress side by side and depend upon each other, man in the primitive age

must have had a limited knowledge and a limited language; and in this possession he occupied a condition of which childhood is the best representative; and as the twofold property was enriched, the difference became wider and wider till at last he attained to the present condition of being. For instance, he had the notion of an animal, and expressed it by the word वृष *vr̥ṣa* which was applied to a man and an ox; and this word assumed the following forms as he acquired the ideas of new animals; as वृक *vr̥ka*, 'wolf' and 'quadruped,' मृग *mṛga*, 'quadruped' and 'deer,' पशु *paśu*, 'cattle,' Lat. *vacca*, 'cow,' बस्त *basta*, 'sheep,' रक्ष *ṛśya* and प्रषत *pr̥ṣata*, 'deer,' रक्ष *rk̥ṣa*, 'bear,' उलूक *ulūka*, 'owl,' उलूपी *ulūpī*, 'an alligator,' Eng. 'wolf,' Gr. *αλωπηξ*, and Lat. *vulpes*, 'fox,' फेर *phēru* and फेरव *phē-rava*, 'jackal,' Lat. *lupus*, 'wolf,' Roma, 'the city of Rome,' Romulus and Remus, of which the latter is a modification of Romus, meaning radically 'wolf' (which meaning was the source of the myth of their having been suckled by a wolf) and corresponding to the Sans. राम *Rāma*, 'son of Daśaratha,' which word also must have originally signified a wolf and was applied to the prince, referring to his courage and strength; माजरि *mārjāra*, 'cat,' Lat. *martes*, 'a marten,' मुसली *musalī* (Tam. *முசலி mudalai*), 'lizard,' Sans. गृष्टि *gr̥ṣṭi*, 'boar,' and 'a cow that has yeaned once,' मेघ *mēṣa*, 'sheep,' महिष *mahiṣa*, 'buffalo,' (cf. महिला *mahilā*, 'woman'), ओतु *ōtu*, 'cat,' बिडार *bidāra*, उद *udra*, *otter*, उंदर *undaru*, 'mouse,' and so on; and in its application to man it is transformed into मनुष्य *manuṣya*, मानुष *mānuṣa*, मर्त्य *martya*, मानव *mānava*, पुंस *pums* (modified as

पुमंस् *pumans* by the insertion of *a* between the nasal *m* and *s* and the addition of a second nasal between *a* and *s*), पुरुष *puruṣa*, पूरुष *pūruṣa*, विस् *viś*, विट *viṭa*, वधू *vadhū*, 'woman,' वेश *vēśa*, and वेश्या *vēśyā*, 'whore.' I shall give another instance. The verbal roots Gr. *γραφω*, 'to write,' *γλυφω*, *γλαφω* and Lat. *sculpo*, 'to engrave,' are not original roots, but are borrowed from the name of stone, such as Sans. *ग्रावन्* *grāvan*, from which are to be derived Gr. *λαος*, *λεως* and Lat. *lapis*, in which the initial *g* is cut off. But in the Latin *scribo* the initial *g* is changed into *c*, and the letter *s*, added to the beginning of the word. The Sans. लिख *likha* may be traced to the Gr. *γραφω*; and the ख *kha* of लिख *likha* may be a modification of *φ*. *ग्रावन्* *grāvan* is shortened into *ग्रा* *grā* and then developed into two syllables as गिरा *girā* from which form may be derived गिरि *giri*, 'mountain,' and by the change of ग *ga* into श *śa* शिला *śilā*, 'stone,' and शैल *śaila*, 'mountain.' The Tam. *வரி vari*, Tel. *వ్రాయ వ్రāyu*, and Kan. *ಬರೆ bare*, 'to write,' are corruptions of *ग्रा* *grā*. Perhaps Sans. शिल्प *śilpa*, 'art,' particularly stone-masonry, may be referred to the Gr. *γλυφω*, 'engraving,' and लिपि *lipi* to *γραφω*, 'writing.' From this it is clear that the roots meaning 'writing,' 'engraving' were originally borrowed from the name of stone. This conclusion applies not only to the Aryan languages but also to the Semitic languages. The so-called trilateral root *ktb* from which are evolved various forms, such as *katb*, 'writing,' *kātib*, 'writer,' *maktūb*, 'written,' *taktīb*, 'causing to write,' *iktāb*, 'dictating,' *kitāb*, 'book,' and *kitābat*, 'inscriptions,' is nothing but a modification of the Gr. *γραφω*. In this way we can clearly see that as one word

is developed into so many forms, and all these allied forms are traceable directly or indirectly to the original word, just in the same way the meaning of the original word is modified in various ways, and these modified and allied ideas can be connected directly or indirectly with the original idea. In some cases the original idea is so much modified that the alliance is not clear. The language or the creative genius of its speakers depends on the principle of analogy, and works out the existing resources in preference to arbitrary coining. The ancient Romans, for instance, who had never seen an elephant before, saw one for the first time in the army of Pyrrhus in Lucania, they called it *Luca bos*, meaning thereby 'Lucanian ox.' What a mistake that was! We that are very familiar with the elephant think that no one would commit such a mistake. But even in the difference between a cow and an elephant which is very striking, there is a similarity; viz., an elephant is a quadruped and has tusks which answer to the horns of an ox, and the genius of Romans like that of any other nation worked out the existing resources of the language instead of coining a new name for an elephant and used it till they got the right names of the animal, viz., *eliphas* and *eliphantus*, from Sans. ऐरावत *airāvata*, 'celestial elephant,' through Gr. ελεφας.

From these examples we clearly see that language was developed in proportion as ideas were. Words did not deal with things as they were, but only as they were conceived by men. Names were given to things with reference to qualities, actions, conditions and the like, and to the latter with reference to their associations. Sometimes the connection was real, and sometimes merely imaginary and arbitrary. In this book general laws relating to such applications have been enunciated according to contexts

and illustrated by proper examples. The words expressing the ideas of shining and laughing, for instance, are connected in the Aryan languages, the former producing the latter, and this law is found even in the Hebrew language.<sup>1</sup> The same idea produces those of fear, hesitation and shame ; for when a person shines, his brilliancy may cause fear in the minds of the spectators, or it may expose the person who shines and thus make him shy or ashamed. (Vide pp. 74-77). Many more laws have been given in the book ; and I simply refer the readers to them as it is unnecessary to quote them here.

In conclusion, I have to remark that I adopted a certain method of investigation not hitherto adopted in the analysis of the Aryan languages and entirely followed the course which my investigation took of itself. New facts and laws were discovered in some particular cases and they were applied to other cases. Thus my method has been inductive and deductive. But there may be errors both in the inductions and deductions, owing to the erroneous-ness and incompleteness of the laws, and also owing to the mistakes committed in the application of those laws. I have, however, ventured to put forward the results of my researches before the people more as a student desirous of learning from them than as a scholar presuming to teach them. I am, therefore, prepared to receive most thankfully every correction and improvement in my work, and to withdraw any statement or give up any conviction, in my homage to TRUTH and in my adoration to HIM who is the abode of

TRUTH.

*“ Veritas a quocunque dicitur, a Deo est.”*

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<sup>1</sup> Vide Goldziher's Hebrew Mythology, p. 93.



# NOTES

ON

## ARYAN AND DRAVIDIAN PHILOLOGY.

### METHOD OF LINGUISTIC INVESTIGATION.

#### PHILOLOGY, A PHYSICAL AND A METAPHYSICAL SCIENCE.

PHILOLOGY is the science of language and is therefore a physical as well as a metaphysical science. A language is a monument of the nation speaking it. It is as such of a twofold aspect. As it is an embodiment of the national thought and intellect, it is a metaphysical monument of the nation. As a nation progresses from a primitive condition to a highly civilized one, the intellect of the nation also receives a proportionate culture, and their language keeps pace with their intellect. Though speech is not absolutely necessary for thinking, an advanced state of knowledge can never be reached without the means of language. If this be the case with a man individually, much more so will this be with a society. The sum of knowledge which we possess now is the aggregate of what our ancestors inherited from their forefathers and what each of them acquired by his own original researches and added to the then existing stock, and all this was handed down by oral precepts in ancient times and by means of writing in subsequent times. The immortal intellectual heirloom of our ancestors and the addition which each of them made to the stock could not

have reached us if there had been no language to communicate human ideas and thoughts with, and human knowledge could not have made so much progress. Language is therefore closely connected with human thought and intellect.

Next, a language is the means of the expression of thought for men, and, as such, reducible to a number of words, and then again to a number of sounds (letters). Letters are articulate sounds. Acoustics is the science of sounds in general. Whatever is heard or perceived by the organ of hearing is called a sound. A sound has other characters; it is pleasing or unpleasing. The pleasantness and unpleasantness of a sound arise respectively from the regularity and irregularity of vibrations of the body which produces the sound. Sounds which are pleasant are musical; and music is the science of pleasant sounds. But what is musical may not be articulate, and music has nothing to do with consonants. Sounds which are distinctly produced by human voice from the various organs of pronunciation are called articulate. But I should observe here that the above definition is somewhat arbitrary and that what is articulate in one language may not be considered so in another. Thus, the letter *f* which is an articulate sound in English, is not so in Sanskrit and the Dravidian languages. The Arabic *gh* is not found in any European or Indian languages. In Sanskrit the most unscientific vowels, अ *r*, ए *ṛ* and इ *l*, were adopted as vowel sounds in a later stage of the language, and they are not found in any other languages of the world. In Sanskrit the letters ट *t*, ठ *th*, ड *d*, ढ *dh*, न *n*, ण *ṇ*, त *s*, क *ks*, ल *l* and a few others did not exist in the primitive stage of the language, and the same is the case with ψ and ξ in Greek. The cerebral letters were

entirely unknown to the Ancient Aryan languages, and came into existence in several languages of the family after the separation of the original Aryan nation. In the Dravidian languages the letters  $\text{ḥ}$   $\text{ḷ}$  and  $\text{ḡ}$   $\text{ḻ}$  were derived both in form and sound from Sans.  $\text{ह}$   $\text{ल}$ , and represent the latter, often standing for other letters, such as  $\text{व}$   $\text{श}$ ,  $\text{ड}$   $\text{ढ}$ , &c. In the sameway, the Dravidian  $\text{ṣ}$   $\text{ṣ}$  called in Telugu śakatarēpha and the  $\text{ṇ}$   $\text{ṇ}$  of Tamil sprang from  $\text{ṣ}^1$   $\text{ṣ}$  and  $\text{ṇ}$   $\text{ṇ}$  respectively. In Sanskrit the visarga and the Tamil aspirate written as  $\text{ḥ}$  and called *āydam* came into existence as modifications of the sound  $\text{h}$ . The Telugu ardhānusvāra is a modification of the anunāsika sound represented by  $\text{ṃ}$  in the Vedas and in the North Indian vernaculars, and is allied to the  $\text{ṃ}$  *nūn* of the Arabic alphabet and can be ultimately connected with Sans.  $\text{म}$   $\text{n}$ . The dental  $\text{th}$ ,  $\text{dh}$ , though found in Anglo-Saxon, were not adopted in English which is derived from that language. The digamma  $\text{F}$  which represented the letter ' $f$ ' in the Ancient Greek language was discarded in the later stage. The Vedic  $\text{ḷ}$  (as the cerebral  $\text{ḷ}$  is pronounced in the Rig Veda when it comes between two vowels) is not found in Modern Sanskrit. Of the sounds which can be called articulate, each language has adopted some, leaving the rest as inarticulate.

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<sup>1</sup> In many ancient Tamil Inscriptions which I have studied, and in the Table of Ancient Tamil Alphabet given by Dr. Burnell in Vol. I, Part VIII, *Indian Antiquary*, this letter appears in forms which are allied to those of  $\text{t}$  and  $\text{ṭ}$ ; and after a careful examination I have come to the conclusion that this form is a modification of that of the dental  $\text{t}$  used in the inscriptions and of that representing the cerebral  $\text{ṭ}$  in common writing till the introduction of printing in Southern India. As the sound  $\text{ṭ}$  is only a modification of  $\text{t}$ , the form for  $\text{ṭ}$  was taken from that used for  $\text{t}$ . In many cases, the śakatarēpha is inserted arbitrarily for Sans.  $\text{ṛ}$   $\text{ṛ}$ .

The science of language is consequently metaphysical on the one hand, and, on the other, physical.

2. As ideas or the things to which they belong are connected, the words which are applied to them are also connected in their orthographical forms. In the material world, we see at a cursory glance innumerable things entirely different from one another. But the scientific man will see that, different as they are, they can be classified into a small number of groups or categories as earth, water, fire, air and empty space. But the chemist makes a critical analysis of the material substance of every kind, and says that they can be reduced to about sixty-five elementary substances. The whole universe or cosmos is divided, first, into astral systems or starry clusters; secondly, into individual systems; thirdly, into individual components of these systems; fourthly, into substances; fifthly, into molecules; and sixthly and at last, into atoms. I quote the following passage from Mr. Atkinson's *Natural Philosophy* :—

“It has been ascertained that all the various forms of matter with which we are acquainted may be resolved into about sixty-five different kinds, which are called simple substances or elements, to express that each only contains one kind of matter. Many of these are very rare, and are found in very minute quantities; others are more widely diffused, and have important uses, but are not abundant; and the great mass of the universe is made up of about fourteen; the non-metallic or metalloids are oxygen, hydrogen, nitrogen, silicon, carbon, sulphur, phosphorus, and chlorine; and the metals, aluminum, potassium, sodium, calcium, magnesium, and iron. Very few of these elements occur in nature in the free state; by far the greater number of the substances we know are compound; that is, formed by the union of two, three or four of these

elements. Thus, water consists of hydrogen and oxygen; marble, of carbon, oxygen and calcium; muscular tissue, of carbon, hydrogen, oxygen and nitrogen. The number of substances containing more than four elements is very small."

3. Similarly, the linguist should divide the whole language into words; and each word is to him what a substance is to the chemist. When analyzed into its components, each word will contain one or more elements and may be classified into three kinds:—first, words which contain a mere root without any other element as Eng. *I*; (Ang. Sax. *ich*). The words of this kind, though admitting of no verbal analysis, can be orthographically analyzed by a comparison of them with the allied words in the same language and the corresponding words of the other languages of the family; next, words which are composed of a root or a primitive word of the above description and a suffix or a prefix or both, as Sans. अस्मि *asmi*, 'I am,' संपत् *sampat*, 'fortune,' and आविरस्मि *āvira-smi*, 'I come out.' Thirdly, those that contain in addition to the root and a suffix, a prefix, or both, some nexus or connecting link as *y*, *v*, *w*, and other letters, and the outgrowth produced by the rules of combination of letters and the like prevailing in the language, as in स्वयंभुवा *svayambhuvā*, 'by Brahma,' in which *v* is inserted between स्वयंभू *svayambhū* and the instrumental suffix आ *ā*; दत्तिम *datrima*, 'which is given,' in which *r* is inserted to strengthen त *t* of the suffix तिम<sup>1</sup> *tima*, which corres-

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<sup>1</sup> The same termination तिम *tima*, which is, as shown above, modified as चिम *trima* by the addition of र *r* to त *t*, assumes

ponds to Gr. *σιμος* as in *ἀλωσιμος*, 'easy to take,' *πτωσιμος*, 'fallen, slain,' *βασιμος*, 'accessible,' *Κρισιμος*, 'decisive or critical,' and to Lat. *tivus* as in *dativus*, *captivus*; *हंस* *hamsa*, which stands for *हंस*<sup>1</sup> *hamsa*, 'a swan,'

the form of *लिम* *lima*, in *पचेलिम* *pacēlima*, 'which is to be cooked,' from *पच्* *pac*, 'to cook,' *भिदेलिम* *bhidēlima*, 'which is to be broken,' from *भिद्* *bhid*, 'to break.' Cf. *ओचिय* *ōtīya* for *ओतिय* *ōtīya*, 'a Vedic scholar' from *श्रुति* *śruti*, 'the Veda.'

<sup>1</sup> As 'yuvan,' contracted into *youn* and with *n* strengthened by *g*, becomes *young* in English, so 'ham' in *हंस* *hamsa* becomes *hang*, and by metathesis becomes 'hagm' the anusvāra preceding *g* coming after it. This pronunciation is not mentioned in the *Prātisākhya* and is mentioned in the *śikshās* only. I think therefore that this is a Dravidian pronunciation originating from a desire on the part of the reciter to strengthen the unsteady and weak anusvāra; and the pronunciation prevails in the Dravidian languages to a great extent; e. g., Tamil *பசு* *paśu*, 'yellow,' as seen in such compounds as *பசும்பாண்* *paśumpoṇ*, taking the following *m* *m*, becomes *பசும்* *paśum*, is modified as *பைம்* *paim* and then *பயின்* *payin*. To this *பயின்* *payin*, *d* is added to strengthen the final consonant and then the vowel *இ* *i* for the sake of pronunciation. Thus we get *பயின்றி* *payinḍi*, which is in Telugu modified as *పసిందీ* *pasinḍi*, and then *పసిడి* *pasidi*, meaning 'yellow.' Similarly we have *మామిడిపండు* *māmiḍi-panḍu* = *மாவீன்பழம்* *māvinpalam*, Tamil *மாவீன்* *māvin* = *மா* *mā*, 'mango tree' + *இன்* *in*, gen. termination meaning 'of,' assuming the form of *மாமிடி* *māmiḍi*, in the Telugu language. Similarly, also, *பீர்* *pīr* + *காய்* *kāy*, (*பீர்* *pīr*, a creeper, *காய்* *kāy*, its fruit), becomes *பீர்க்காய்* *pīraṅkāy*, by the insertion of the augment *அம்* *am*. See Tol-kāppiyam Pullimayaṅgiyal, Sūtra 70.

“பீரென்கிலவி யம்மொடு சிலனும்.”

*Pīrenkilavi yammodu śivanum.*

'The word *பீர்* *pīr* will take the augment *அம்* *am*.'

*பீர்க்காய்* *pīraṅkāy* assumes the form *பீர்க்குகாய்* *pīraṅgukāy* by strengthening *க்* *n* with *கு* *ku*, which corresponds to *गृ* *g* in Sans.

in the Yajur Veda and in which ग् *gm*, pronounced somewhat like *gim*, is used for the *anusvāra* sound : and so on.

Most of the conjugational and declensional forms are derivatives containing several parts.

4. By a careful comparison of the words of one language which are connected in forms and meanings, with the corresponding words of the other languages of the same family, we can trace them to their simplest sources and be in a position to explain the derivation of each of them. We can also become acquainted with the principles on which each grammatical form is constructed and get a clear insight into its component parts. This is the method in which the philologist must conduct his linguistic investigations and solve all questions connected with the derivations of the words of a language and the analysis of its grammatical forms. This is not a quite new scientific method and need not be specially noted here but for the very limited use made of it in linguistic researches ; and, when we look into the results achieved by philology even in the most cultivated languages of the world, viz. Sanskrit and Greek, we shall see that, with some exceptions, the most learned and intelligent scholars have fallen back and have contented themselves with what could be gathered about the surface and have not dived below the depth already reached.

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हग्न्स *hagñsa*, then பிரஞ்சன்ஸ் *pīraṅcṅkaṇṣ*, by the transfer of ஞ *ñ* and கு *ku*, and at last shortened into பிரிஞ்சுஞ்சன்ஸ் *pīriṅcuṅcṅkaṇṣ*, by the elision of ஞ *a* of ஞ *r* and the euphonic doubling of ச *k*. But in the Telugu பிரஞ்ச *bīraṅcā*, corresponding to the Tam. பிரிஞ்சுஞ்சன்ஸ் *pīriṅcuṅcṅkaṇṣ*, no such orthographical outgrowth is seen. This is the best way, I think, to account for the peculiar pronunciation of the Yajur Vēdi Brahmins.

5. Now I shall give a brief account of what has been done in the Aryan and Dravidian philology.<sup>1</sup> Taking the Comparative Grammar of Mr. Bopp, we can say that it is really a great work and, as the first of the kind, a most admirable one. It is the only systematic and complete work on the subject and has not yet been surpassed or rivalled. But it is not sufficient and does not solve all questions and difficulties; and in addition to this, I may say that there are errors which require corrections. After the gigantic progress which that great pioneer of linguistic science made, his followers did not go much beyond his limit. This is the case with the Comparative Grammar of the Aryan languages. As for comparative lexicons, we have Bopp's Comparative Lexicon, Benfey's Dictionary and Mon. Williams' Dictionary and the like in which attempts have been made to bring under each word the corresponding words of allied languages for comparison but without much success.<sup>2</sup> But if we refer to Latin and Greek dictionaries of which we may take Smith's and Liddell and Scott's Dictionaries as the best representatives we have, we must observe that the case is equally unsatisfactory. With great deference to their scholarship and their immensely useful works, I beg to observe that the authors have failed to discover the alliance of many words in the same language and have treated words which are allied in form and meaning as different primitive words, and that they have equally failed to avail them-

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<sup>1</sup> I request that my readers will be good enough to understand that I make these remarks very generally and that they are to be taken with much limitation.

<sup>2</sup> It is to be regretted much that, even in the St. Petersburg Sanskrit Dictionary, no attempt was made to find out the right etymology of words.



selves of the results achieved by the past and contemporary philologists. The same remarks may be applied to the various works on the grammars, we have, of the other classical languages of Europe individually.

Coming to the Indian Vernaculars, I have to observe that within the last twenty years two Comparative Grammars have been produced, one written by Mr. Beames styled "A Comparative Grammar of the Modern Aryan Languages of India," and the other, by Dr. Hoernle styled "Grammar of the Gaudian Languages," and to these we may add a small book produced by the former with the title of "An Outline of Indian Philology." As for the Dravidian Languages, the Comparative Grammar written by Dr. Caldwell which is the first work of the kind is to the Dravidian languages what Bopp's Comparative Grammar is to the Aryan languages. It is an elaborate and interesting work in which the learned author has shown his researches and scholarship to a great extent.

I may next mention Dr. Gundert's Malayalam Dictionary in which the author has attempted to introduce under each word the corresponding words of the other Dravidian languages with some success.<sup>1</sup> But speaking generally of the results produced by the above and other philologists, I have to observe that the success achieved by them is very limited and much remains to be done, and that this is partly owing to the imperfection of the knowledge which the linguists possessed of the languages which they have treated and partly to their failure to give a wide application to the method above described.

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<sup>1</sup> I cannot omit mentioning here the 'Kanarese Dictionary on the Comparative Method' which was promised five years ago by the Rev. Mr. Kittel of Mercara, who is one of the best Kanarese scholars in this Presidency and has done much for Kanarese literature and from whom we may expect much.

6. Now, to return to the scientific method of the philologist. He should classify all the allied words of one language and the corresponding words of the other languages of the family into one group, and if he continues this method in the analysis of the kindred languages and forming groups of allied words, he will arrive ultimately at a number of groups. He will then be able to see that each individual word of each group bears some orthographical affinity to the rest of the group and that all words of the group are traceable to one primitive word from which the other words can be reconstructed by orthographical changes which take place according to certain phonetic laws and which are to the linguist what evolution is to the chemist, with this difference that the orthographical changes which produce so many words from a primitive one partly depend on the peculiar construction of the organs of speech of the nation who speak it and partly on the will of the speaker, and the thought he wants to express. The Ang.-Sax. *cunnan*, 'to know,' for instance, should give us the past tense form '*cuthe*' and not '*could*' with an *l* as we now spell it.

7. The above method of grouping is of two kinds, one being the grouping of all words bearing some analogy in their forms and some connection in their meanings and then tracing their forms and meanings to their proper sources in the group itself as in the first of the following lists. This belongs to a higher stage of philology, which is accessible only to advanced scholars. The other kind of grouping consists in classifying together the corresponding words of the allied languages of the same family, which express the same idea as in the second of the following lists; as, Sans. *अहम् aham*, Gr. *εγω*, Lat. *ego*, Ang.-Sax. *ich*, and so on. There are, however, exceptions; e. g., Sans. *द्युस् dyus* and Gr. *ολυμπος* are con-

nected with स्वर *svar*, as shown lower down, while Lat. *coelum* and the older form of it, *coelus*, are traceable to a group of words which originally conveyed the idea of 'a hole,' such as Sans. सुषि *susi*, गुहा *guhā*, कुल *kula*, कुहर *kuhara*, कोटर *kōṭara*, Gr. *κευθα* and *κευθμων*. The novitiates must begin their study of philology and their researches first in this method, for the chances of errors are fewer and the conviction is more certain than is the case with the other method.

8. As for the grammatical forms and derivative words, the second kind of the groupings abovementioned is to be followed. The philologist should take a grammatical form or a derivative word of one language and compare it with what is corresponding in the kindred languages.<sup>1</sup> Whatever may be the changes and outgrowths concealing the real origin of many of the allied forms and words, there may be some or at least one in which we can see a clear trace of the component parts; and we can apply the analysis thus arrived at to the rest of the corresponding forms and words. If, however, there be a peculiar part or residuum in the composition of them, it can be accounted for by some orthographical laws already existing or to be discovered hereafter. But if, after a careful investigation, we are not able to explain away the residuum, we may then, very generally, infer that the grammatical form or word, which thus baffles a clear and complete analysis, must be an unconnected one.

To illustrate what I say I shall give the following four lists, of which the first will contain five groups of the corresponding words of the allied languages of one family

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<sup>1</sup> Here too there are exceptions; e. g., Sans. द्वितीय *dviṭīya* is formed from दि *dvi*, 'two,' and तीय *tīya*, a termination modified

expressing the same and allied ideas; the second, many groups, each of which contains the corresponding words of the allied languages expressive of the same idea; the third, the corresponding grammatical expressions; the fourth, derivative words.

### List I.

First Group, which I call *Ātman Group* as it is represented by the word आत्मन् *ātman*.<sup>1</sup>

9. Take the Sanskrit word शुभ *śubha*, 'good,' शोभन *śobhana*, 'good,' and शुभ् *śubh*, 'to shine.' It is easy to connect them; for there is not much difference in their forms. But the verb शुभ् *śubh*, 'to shine,' seems to be a little far in meaning from शुभम् *śubham*, 'good;' but what is good is attractive or beautiful by association. The two ideas are therefore connected. In Sanskrit स्वम् *svam* [स्वर् *sva*r and स्वस् *svas*, 'heaven and happiness']

from त्य *tya*, and is found in Gr. *τριτος* and *τριτατος* and Lat. *tertius*; but the corresponding Greek and Latin words are differently formed, e. g. Gr. *δεοτερος* (Sans. द्वितर *dvitara*) is composed of *deo*, 'two,' and *tepos*, a termination of the comparative degree; and Lat. *secundus* comes from *sequor*, Sans. सच् *sac*, Gr. *ἐπομαι*, and is a present participial adjective form of the root meaning 'following.' Similarly, Tam. ஒன்று *onru* (radically ஒன்று *onnu*), Kan. ಒಂದು *ondu*, and Tel. ఒకటి *okaṭi*, meaning 'one,' are differently formed; for the former two are radically the same forms, while the last, Tel. ఒకటి *okaṭi*, is a contraction of ఒకడ *oruvadi*, ఒక *oru*, Tam. ஒன்று *onru*, అది *adi*, Tam. அது *adu*, 'that,' meaning radically 'that which is one.' The real Telugu word corresponding to Tam. ஒன்று *onru*, and Kan. ಒಂದು *ondu*, is ఒండు *onḍu*, which is replaced in the common language by ఒకటి *okaṭi*, and is confined to literary language only. (*Vide* Vol. II.)

<sup>1</sup> *Vide* Note 1, p. 14. *Vide* the Semetic Analogy at the end of the List.

means 'happiness,' and from this word I derive the above three words शुभम् *śubham*, शोभनम् *śobhanam* and शुभ् *śubh*. The words शिवम् *śivam*, 'good,' शिवस् *śivas*, 'God Śiva,' शिवा *Śivā*, 'his wife,' also, are modifications of the same root स्वम् *svam*. But स्वम् *svam* is only of one syllable, and the connection between it and शुभम् *śubham*, &c., and शिवम् *śivam*, &c., which contain two syllables, may appear improbable. We may, however, take such examples as स्वर *sva*, सुवर *suva*, 'heaven,' and स्वर्ग *svarga*, सुवर्ग *suvarga*, 'heaven,' and see that the monosyllabic स्वम् *svam* is modified by the insertion of *u* and *i* into शुभम् *śubham* and शिवम् *śivam* respectively. शिव *śiva* is modified as शैव *śēva* and चेम *kṣēma*, 'happiness,' the former being used in the Vedas. स्वम् *svam* is contracted into शम् *śam*, 'happiness.' Gr. *ιδιος*,<sup>1</sup> 'one's own,' Ang.-Sax.

<sup>1</sup> स्व *sva* is modified as *δία* by the change of *s* into *δ* and *v* into *ia* (Sans. *य* *y*) and *i* is prefixed simply for pronunciation as 'o' in *ολυμπος* (स्वस् *svas*), which is explained lower down.

It is this word स्व *sva*, which is converted into स्य *śya*, and is used as a genitive suffix. As स्वम् *svam* becomes *ιδιον* in Greek, it becomes *உதயி* *udai* in Tamil by the insertion of *u* at the beginning, and means 'possession,' 'property.' *உதையி* *udaiya* is used in Modern Tamil as the genitive suffix and is derived from *உதயி* *udai*, and answers to Sans. स्य *śya*, and to Gr. *ov*. Tam. *உதையி* *udaimai*, 'possession,' is formed exactly as Sanskrit स्वत्वम् *svatvam* (old form स्वत्वन् *svatvan*) and Gr. *ιδιωμα*(τ) and agrees with the latter words in meaning. Compare Gr. *κτημα*(τ) 'possession.' Tel. *కలిమి* *kalimi*, 'wealth.'

*habban*, 'to have,' and Lat. *habeo*, 'to have,' are derived from स्वम् *svam*, meaning 'possession or property' and connected with स्वर *sva*, 'heaven.'<sup>1</sup> To this स्वर *sva* meaning 'happiness,' are traceable the Gr. ολβος, 'happiness,' Lat. *salvus* 'well,' 'sound' and perhaps the Eng. *happiness*, *happy* and *hap* which are usually derived from Fr. *happer*, 'to snatch,' and also Lat. *aveo* and *haveo*, 'to be happy,' and Sans. सुख *sukha*,<sup>2</sup> Gr. ὑγίεια, 'health,' 'soundness of body,' ὑγιης, 'sound,' 'healthy,' &c., in which *v* of स्व *sva* is changed into *kh* and *g*. The same idea is expressed in Latin by the word *salvus* of which '*halvus*' is simply a modification. स्व *sva* is contracted into सु *su* and ए, 'good.'

10. Gr. ολβος and Lat. *salvus* seem to be metathetical modifications of स्वर *sva* and स्वस् *svas*, 'happiness,' the final *r* coming to the middle of the word and being changed

<sup>1</sup> I shall assume here that the most original idea of this group is found in आत्मन् *ātman*, which I have taken as the representative of this group and which I shall mention hereafter. आत्मन् *ātman* means 'self,' that is 'I' or 'Soul,' Wind or breath, and all the other meanings are traceable to those two. The change of meanings may be as follows: from wind, region of wind, that is sky, the firmament, heaven, the region of Gods which is supposed to be above the sky, earth, the sun, moon, other planets, clouds, rain, snow, water, vapour, smoke, &c., and from the idea of 'I' or 'Self,' own, possession, property, wealth, happiness and so on.

आत्मायन्नधृतिस्वांतस्वभावपरमात्मसु। जीवबुद्धिशरीरेषु॥

*Ātmāyatna dhṛtisvānta svabhāva paramātmasu, jīvabuddhi śarīreṣu.*

*Nānārtharatnamālā.*

<sup>2</sup> सुख *sukha*, being wrongly analyzed into सु *su* + ख *kha*, produced the word दुःख *duḥka*, 'sorrow,' दुस् *duṣ* + ख *kha*. From सुख *sukha* are derived Arab. شوق *shauq*, Pers. شوق *shōkh*, 'playful.' Tel. సోకు *sōku*, 'a spirit,' 'to be entranced,' सोकु *sokku*, 'charm.'

into *l*. Sans. सर्व *sarva*, 'happy,' 'whole,' is also allied to it.<sup>1</sup> Connected with स्वस् *svas* are the Gr. σωξω, σωω, and σωω, 'to keep alive,' and Sans. श्वस् *śvas*, Gr. φυσωω and Lat. *sibilo*, 'to breathe' and also Sans. स्वस्ति *svasti*, and Gr. σωστέον, 'it is to be saved,' and Sans. शर्मन् *śarman*, 'happiness,' केवल *kēvala*, 'sole, entire,' क *k* being inserted for स *s* of स्वर *sva*, Sans. कुशल *kuśala*, 'welfare,' Pers. خوشامد *hkušāmad*, 'flattery,' خوش *hkuš*, 'pleased,' خوشي *hkušī*, 'happiness.'

11. Here I would mention the Ang.-Sax. *heofon*, *heofen*, *hefon* and *heben* and the English derivative *heaven*. This group is usually derived from Ang.-Sax. *hefan*, 'to raise or lift,' in Bosworth's Anglo-Saxon Dictionary, Angus's English Grammar, and other works; and this is the view held universally about the origin of the word. The final syllable *en* would then be a corruption of *ed*, *n* standing for *d* as in 'shaped,' 'shapen,' the past tense forms of the verb to 'shape' as in Sans. चात *trāta* and चाण *trāṇa*, 'protected,' from चा *trā*, to 'protect,' त *t* and न *n* being past participial terminations.

<sup>1</sup> सर्वतातिम् *sarvātātim*, 'happiness,' सर्व *sarva*, 'happy.'

Rig Veda, X. 100, 1; 36, 14.

Similarly Sans. सकल *sakala*, 'all,' Gr. οχλος, 'a throng of people,' seem to be traceable to the same source and also Sans. समस्त *samasta*, Gr. πασ, Gen. παντος, shortened from οπας,

a form directly derived from समस्त *samasta*.

<sup>1</sup> I would derive the Arab. سلامتي *salāmati*, 'safety,' from Sans.

शर्मन् *śarman*, by the change of *r* into *l* and the insertion of the vowel *ā* between *l* and *m*.

But if we compare *heaven* with Sans. **स्वर्** *svar*, 'heaven,' **सुमेरु** *sumēru*, and **मेरु** *mēru*, which last two words will be mentioned hereafter, we can easily see that the word is not to be derived from *hefan*, 'to heave,' but is to be connected with Sans. **स्वर्** *svar*, consonant with consonant, as *h* with **स** *s*, *f* with **व** *v*, and *n* with **र** *r*. Analogy is, moreover, in favour of my supposition, for the idea of 'up' is derived from that of the region of sky, wind or air, with which the idea of 'Heaven' is to be connected.

12. Compare the following list:—

SANSKRIT.	GREEK.	LATIN.	ANG.-SAX.	ENGLISH.
<b>उपरि</b> <i>upari</i> ,	<i>ὑπερ</i> .	<i>super</i> .	<i>ofer</i> .	over
<b>परि</b> <i>pari</i>	<i>περι, περ</i>	<i>per</i>	<i>for</i>	for
<b>उप</b> <i>upa</i> ,	<i>ὑπο</i>	<i>sub</i>	<i>upp</i>	up.
<b>अव</b> <i>ava</i> , as in				
<b>अधर</b> , <i>adhara</i> ,				
<b>अधम</b> <i>adhama</i> ,				
<b>अधस्</b> <i>adhas</i> , and				
<b>अवर</b> <i>avara</i> , and				
<b>अवम</b> <i>avama</i> .				
—	—	—	<i>ufan</i>	above.
—	—	—	<i>ufa</i>	—
—	—	—	<i>ufon</i>	—
<b>उपर</b> <i>upara</i> <sup>1</sup>	<i>ὑπεριων</i> <sup>2</sup>	<i>superus</i> ,	<i>ufera</i>	upper.
<b>उपम</b> <i>upama</i> <sup>3</sup>	<i>ὑπατος</i> , <sup>4</sup>	—	<i>ufema</i>	upmost.
—	—	—	<i>upha</i>	—

<sup>1</sup> 'Clouds,' 'near.'    <sup>2</sup> 'Sun-god.'    <sup>3</sup> 'Similar.'    <sup>4</sup> 'Highest.'



SANSKRIT. GREEK. LATIN. ANG.-SAX. ENGLISH.

οφρα, 'that or in order that.'

οψε, 'at length.'

οψια, 'the latter part (of the day).'

υψι, 'aloft.'

ऊर्ध्व <sup>1</sup> <i>ūrdhva</i> ,	αιπυς } ———	——	——
αιπος }	——	——	——
——	ήλβατος	——	lyft, lyft 'heaven or atmosphere.'

अव <i>ava</i> .	ολυμπος	——	——	——
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The first words of the above list, उपरि *upari*, *υπερ*, &c., may be connected with Sans. स्वर *svar*, the idea of 'sky' originating that of 'high.' In Sanskrit, उपरि *upari* is shortened into परि *pari*, by the elision of the first vowel, and into उप *upa*, by that of the final syllable रि *ri*. Similarly are formed from Gr. *υπερ*, Lat. *super*, Ang.-Sax. *ofer*, respectively, Gr. *περι*, *περ* and *υπο*, Lat. *per* and *sub*, and Ang.-Sax. *for* and *upp*, *ufon*, *ufa*, *upha*, &c. In Sanskrit, अव *ava* meaning 'down' must be a modification of उप *upa*, and, in अधर *adhara*, अधम *adhama*, and अधस् *adhas*, is still more modified owing to the contact of त *t*. अधर *adhara*,<sup>2</sup>

<sup>1</sup> Gr. *αρδην* or its full form *αερδην* and Latin *altus*, 'high,' Sans. अट्ट *atta*, 'lofty' and अट्टालक *attāḷaka*, 'an apartment on the roof of a house,' seem to be allied to it.

<sup>2</sup> In these words अव *ava* is changed into अह *aha* by the change of व *v* into ह *h*; and, when तर *tara*, तम *tama* and तस् *tas* follow, ह *h* is united with त *t* and changes it into ध *dha*; as,

'low' or 'mean' = अव *ava* + तर *tara*, in which अव *ava* means 'down' and तर *tara* is a suffix of the comparative degree; and अधम *adhama*, 'meanest,' 'lowest' = अव *ava* + तम *tama*, in which तम *tama* is a suffix of the superlative degree; अधस् *adhas*, 'down or downwards' = अवतस् *avatas*, तस् *tas* being an adverbial suffix corresponding to the Gr. *θεν*.

सधस् *sadhas* = सह *saha* + तस् *tas* as in सधस्थस् *sadhassthas*, 'an attendant,' सध्र्यस् *sadhryañc*, 'an attendant' = सधस् *sadhas* + अन् *añc* = सधर् *sadhar* + अन् *añc* by the change of स *s* into र *r* = सध्र् *sadhr* + अन् *añc* by the elision of the penultimate अ *a* and then = सध्र् *sadhr* + य् *y* + अन् *añc* by the insertion of an extraneous य् *y* between ध्र् *dhr* and the vowel अ *a* (as in सम्यन् *samyañc* = सम् *sam* + अन् *añc* and तिर्यन् *tiryañc* = तिर् *tir* + अन् *añc*, तिर् *tir* being contracted from तिरस् *tiras*.) Similarly, in Tamil *அது* *adu*, 'that,' *இது* *idu*, 'this,' and *உது* *udu*, 'yonder,' are written as *அகது* *ahdu*, *இகது* *ihdu*, and *உகது* *uhdu*, respectively, in the first of which the āyda letter 'க' (Sans. ह् *h*) is inserted as a modification of வ *v* of *அவ்* *av* (and ஒ *o*), which stands for Sans. सस् *sas*, Pali and Prākṛtic सो *sō*, and Greek ὁ *o*, the aspirate sound of which is lost in Tamil. *அ* *a* is a modification of ஒ *o*, and is used generally, but the latter which is more original reappears before the termination *து*; thus *அது* *adu* becomes ஒது *odu*, then அவ் *avdu*, அவ் *av* being put for ஒ *o*, then அகது *ahdu*, வ *v* being changed into க *h*. But this aspirate sound is universally seen in the Kanarese language in both of its dialects, in the demonstrative adverbs, as Kan. ಅಹಗಿ *ahage*, Tam. அங்கு *āngu*, 'so'; Kan. ಇಹಗಿ *ihage*, Tam. இங்கு *iṅgu*, 'thus'; Kan. ಏಹಗಿ *ehage*, Tam. ஏங்கு *ēngu* (obsolete) or யாங்கு *yāngu*, which is used in its place and means 'where;' and the modern forms ಹಾಗೆ *hāge*, ಹೀಗೆ *hīge*, and ಹೀಗೆ *hēge* corrupted into ಹ್ಯಾಗೆ *hyāge*.

But in अवरा *avara* and अवम *avama*, the root अव *ava* remains unchanged and the suffixes अर *ara* and अम *ama* are modifications of तर *tara* and तम *tama* by the elision of the initial *t*. Compare परम *parama*, Lat. *supremus*, Gr. *ὑπατος*. In Gr. *οψε*, *οψια* and *ὑψι*, the *r* of *ὑπερ* is changed into *σ*. *Οφρα* is a modification of *ὑπερ* like Ang.-Sax. *ofer*; Eng. *above* is derived from *ab* + *ufa*, 'high.'

Sans. ऊर्ध्व *ūrdhva* seems to be a modification of स्वर *svar*, which, by the insertion of a euphonic ऊ *ū* at the beginning as in Gr. *Ολυμπος*, Sans. स्वर *svar* and उलूखल *ulūkhala*, Gr. *δοιδυξ* [see § 13], and, by the transposition of *r*, becomes ऊर्ख *ūrsva* and then ऊर्ध्व *ūrdhva* by the change of स *s* into ध *dh*, and is connected with रुध्व *rṣva*. It is from this word ऊर्ध्व *ūrdhva*, I think, that the Greek words *αιψυς*, 'high,' 'steep,' and *αιπος*, 'high,' are to be derived by the elision of र *r* and ध *dh* and the change of *v* into *p*. Compare the following :—

SANSKRIT.

GREEK.

उद्वह् *udvah*, 'to marry.' *οπνιω*, *οπνω*,उद्वहस *udvahas*, 'son,' *υιος*,

अध्वन् <i>adhvan</i> ,	{ <i>οιμος</i> <i>οιμη</i> }	a way or path, by the elision of ध <i>dh</i> and the change of <i>v</i> into <i>m</i> .
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Sans. स्तेषन् <i>stēṣman</i>	{	Gr. <i>λαπη</i> by the elision of <i>γ</i> and the initial <i>φ</i> .
Gr. <i>φλεγμα</i> (τ)		

Lat. <i>sagnus</i>	{	Gr. <i>αιμα</i> by the elision of <i>g</i> and the change of <i>v</i> into <i>m</i> and of the initial <i>s</i> into <i>h</i> .
Sans. असृक् <i>asṛk</i>		

Sans. चिह्नम् <i>cihnam</i>	{	Gr. <i>σημα</i> , by the elision of <i>g</i> and the change of <i>n</i> into <i>m</i> .
Lat. <i>signum</i>		

Sans. रूग्ण *rugṇa*, 'sick,' Gr. λοιμος, 'plague,' by the elision of ग *g*, the change of न *n* into म *m*, and र *r* into ल.

Sans. उच्च *ṛṣva* means 'high,' 'lofty,' as in the following Vedic passage:—

अज्राद्रस्यगिरयंसिद्धुवाः Rig Veda, VI. 24. 8.

*Ajrā indrasyagirayaściddṛvāh.*

'Even lofty mountains are surmountable to Indra.'

Gr. Ολυμπος corresponds to Ang.-Sax. *lyft* or *luft*, 'heaven,' 'atmosphere,' with this difference: that the euphonic *o* found at the beginning of the Greek word is not found in the Anglo-Saxon and the *t* which is found at the end of *lyft* disappears in Ολυμπος. As for the other consonants there is a clear affinity letter to letter, as *l* to λ, *f* to μπ. From *lyft* are derived Eng. *loft*, 'height,' *lofty*, 'high,' *aloft*, 'high,' and *lift*, 'to raise.' But *lyft* bears a closer alliance to स्वर *svar* than it does to Ολυμπος, and can be connected with *heafon*, *heofen*, *hefon* and *heben*, the स *s* of the Sans. स्वर *svar* being changed into *h* in *heafon*, &c., as it is changed into *l* in *lyft*. I would therefore trace Sans. उपरि *upari*, Lat. *super* and all the allied words and derivatives in the above list, the Eng. *heaven* and the Ang.-Sax. *heofon*, &c., *lyft* and *luft* to स्वर *svar*.

As in Sanskrit and Greek we have चिप् *chīp*, σκηπτω, σκιμπτω, σκιπτω and also σκιπω, 'to throw,' and ηλιβατος, 'steep,' 'high' from स्वर *svar*, so have we Ang.-Sax. *līften*, Icel. *lypta*, 'to lift,' Eng. *lift*, *sift*, Ang.-Sax. *hefan*, 'to lift,' Eng. *heave*, and Lat. *levo*, all traceable to the same root स्वर *svar*.

13. From स्वस् *svas* and स्वर *svar*, 'heaven,' 'happiness,' which gave us स्वम् *svam*, 'happiness,' and सुवर *suvar*,

'heaven,' I derive सुमेरु *sumēru* and मेरु *mēru*<sup>1</sup> by the change of *v* into *m*, the idea of sky or heaven giving the idea of 'high.' Lat. *superus* 'above,' Gr. Ὑπεριων, Sans. सुपर्वन् *suparvan*, 'a deity,' पर्वत *parvata*,<sup>2</sup> 'clouds' and Gr. Ὀλυμπος, a high wall on the Macedonian frontier of Thessaly which was believed to be the abode of the gods, and the way to which was guarded by thick clouds, are allied to Sans. स्व *sva* (and स्वर *svar*) which is changed into सुव *suva*,<sup>3</sup> as already shown in शुभ *śubha*, and then becomes लुप *lupa*, by the change of *s* into *l*<sup>4</sup> and *v* into *p*. Compare Lat. *liber*, Sans. स्वैर *svaira*, 'free.' लुप *lupa* is modified into लुप *lumpa* by the insertion of *m* before *p*. The vowel *o* may have been inserted before the word for the sake of pronunciation; and the addition of a vowel to the beginning of a word often occurs in Sanskrit and Greek; as,

<sup>1</sup> Gr. Ἐπιπος, a large country in the north-west of Greece, which is elevated, Πιερια, a district in Macedonia, and Πιερος, a king of Emathia; Tam. மீடு *mēḍu*, Tel. మిట్ట *mitta*, 'elevation,' Kan. ಮೀಡ್ *mēḍ*, Tam. மீட *mēḍ*, Tel. మీడు *mīḍu*, which are modifications of Sans. परि *pari*, Gr. περι, and are traced to the syllable वर् *var* of स्वर *svar*.

<sup>2</sup> पर्वत *parvata* comes from पर्वन् *parvan* (πειρατ), 'end' = परिमन् *pariman* = उपरिमन् *upariman*, Gr. Ὑπεριων.

<sup>3</sup> From सुव *suva* we get सुम *suma*, which is changed into क्षुम *kṣuma* and then क्षौम *kṣauma*, 'an airy room on the top of a house.' Similarly can be derived from सुवर् *suvar*, Vedic सुमत् *sumat*, क्षुमत् *kṣumat*, 'happy,' and सुवितम् *suvitam*, 'happiness.'

<sup>4</sup> Vide § 31.

## SANSKRIT.

## GREEK.

अद्भुतम् *adbhutam*,

θαυμα (τ), 'wonder.'

भ्रू *bhrū*,

οφρυσ, 'eyebrow.'

चल *cala*,

οκελλω, 'to move.'

एडूक *ēdūka*,

τειχος, 'a wall.'

अनीक *anīka*,

νεικος, 'battle.'

मिह् *mih*,

ομιχω, 'to make water.'

नख *nakha*,

ονυξ, 'nail.'

दन्त *danta*,

οδους, 'teeth,' οδαξ, 'with teeth.'

दभ्र *dabhra*,

ελαφρος, 'small,' 'light.'

लज्ज *lajj*, 'to be ashamed,'

ελεγχω, 'to put to shame.'

ग्लै *glai*,

οκλαζω, 'to sink down.'

लेश *lēsa*,

ολιγος, 'few,' 'small.'

दु *du*,

οδυσσομαι, 'to be grieved.'

अश्रु *āśru*, 'tear,'

ολοφυρομαι, 'to shed tears,' in which the radical part is *λαφυρά* which contracted into *λαφρα* answers to *δακρυ*, φ standing for κ of *δακρυ*, Latin *lacrima* and *dacrima*.

मृज् *mrj*,

ομοργνυμι, 'to wipe out.'

निंदा *nindā*,

ονειδος, 'reproach.'

उलूखल *ulūkhala*,

δοιδυξ, 'a pestle,' which by metathesis becomes *δοικαδα* and then *δυχαδα* and, by the change of δ into ल l, and the euphonic insertion of उ u before the word, is transformed into उलूखल *ulūkhala*.

## SANSKRIT.

## GREEK.

नर *nara*,*ανηρ*, 'a man.' Sans. अंडीर  
*anḍīra*,<sup>1</sup> 'a man.'नामन् *nāman*,*ονομα* (τ), 'a name.'सभाज् *sabhāj*,*ασπαζομαι*, 'to embrace.'

Sans. सभाज् *sabhāj* being modified from स्वज् *svaj*, 'to embrace' which latter in Tamil becomes தஞ்ஞ *taluvu*, Kan. ತಬ್ಬ *tabbu*, 'to embrace,' Tel. దొబ్బ *dobbu*, 'to cohabit with a woman,' Hindi شاباش *šābāš*, 'bravo,' has received an additional *a* at the beginning in the Gr. *ασπαζομαι*.

In the above examples a vowel is inserted at the beginning of a word for the purpose of euphony. But Gr. *Ολυμπος* may be derived from स्वर *svar*, by metathesis as Lat. *salvus* and Gr. *ολβος*, 'happiness,' were derived; and in that case the initial *o* must be aspirated as a modification of स *s* and, as the *o* however is not aspirated, we may also suppose that the aspirate sound was lost.

14. Next comes the word सस् *sas*, 'to sleep,' which is a contraction of स्वस् *svas*, 'happiness.' Similary, I derive from स्व *sva* and सुख *sukha*, स्वप् *svap*, 'to sleep,' Lat. *sopio*, 'to put to sleep,' Gr. *ὑπνος*, 'sleep,' Sans. स्वप्न *svapna*, and the corresponding words of other languages and their derivatives. स्वाहा *svāhā*,<sup>2</sup> a word applied to the Gods, and

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<sup>1</sup> In the sūtra कांडांडादीरन्नीरचो *kāṇḍāṇḍādirannīracau* (V. 2, 111), Pāṇini derives अंडीर *anḍīra* from अंड *aṇḍa*, 'testicle' and ईर *īra*, a suffix indicating possession.

<sup>2</sup> Yaska mentions स्वाहा *svāhā* among the synonyms of वाक्

**स्वधा**<sup>1</sup> *svadhā*, applied to the Manes, both meaning 'happiness,' correspond to the word **स्वस्ति** *svasti*, applied to men, as **स्वस्त्यस्तुते** *svastyastutē*, 'may there be happiness to you.' **स्वाहा** *svāhā* seems to be a modified form of **स्वस्** *svas*, by inserting *h* for the final *s* and adding *ā* to the end and lengthening the preceding vowel *a*. But in **स्वधा** *svadhā*, *ā* is added to **स्वस्** *svas*, and *h* is changed into *dh*.

15. Next, from **स्वस्** *svas* we proceed to **दिवस्** *divas*, Gr. Zeus, Δις, Διος (Sans. दिव्य *divya*), Θεος, Διωνη, Lat. *Deus*, and *Jovis*, *Juno*, *Janus* and *Diana*. **दिवस्** *divas* originally meant 'Heaven,' as in **दिवस्पति** *divaspati*,<sup>2</sup> द्यौस्पितर *dyauspitar*, Gr. Ζευς *Zeus* and Lat. *Jupiter*, and, when contracted, becomes द्युस् *dyus*, and द्यौस् *dyaus*, 'Heaven,' द्युस् *dyus*, द्यस् *dyas*, and तिथि *tithi*, 'a day.' **दिवस्** *divas*, which comes directly from **दिवस्** *divas*, also, means 'a

*vāk*, 'speech,' and derives it in the following way :—

स्वाहेत्येतत्सु आहेतिवा स्वावा गाहेतिवा स्वप्राहेतिवा स्वा  
*Svāhētyētatsū āhētiwā svāvā gāhētiwā svamprahētiwā svā*  
 उतं हविर्जुहोतीतिवा ॥ (Nirukta, 8-20.)  
*hutam havirjuhōtītiwā.*

<sup>1</sup> **स्वधा** *svadhā* is mentioned by him among the synonyms of 'water' and 'food.' From this may be derived सुधा *sudhā*, 'nectar.'

<sup>2</sup> In the word **दिवस्पति** *divaspitṛ*, Gr. Ζευς *Zeus*, as *μῆτηρ* to *Γῆ* in *Γῆμῆτηρ* which is found in an older form as *Δῆμῆτηρ*, Demeter or Ceres, the goddess of agriculture and rural life and mother of Persephone.—Max Müller's 'Science of Language,' Lecture X.



day.' दिन *dina*, 'a day,' is a modification of द्युस् *dyus* by the change of *s* into *n*.

In the Latin word *Jupiter* the द्य *dya* of द्यौस् *dyaus* is changed into *j*, as also in *Jovis*, *Jupiter*, 'God,' *Juno* the wife of Jupiter, and *Janus*, 'the sun-god.' As ज्य *gyā* is the wife of द्यौस् *dyaus*, Δ $\eta$  of *Zeus*, so is *Juno*, the wife of Jupiter. Compare *Caius* or *Gaius* and *Caia*, which will be mentioned lower down. The change of the *s* of द्यौस् *dyaus* into *n* in *Juno* and *Janus*, is like that taking place in Sans. क्षोणी *kṣōṇī*, 'earth', Gr. Δ $\iota$ ωνη, the mother of Venus, दिन *dina*, 'a day,' Eng. *dawn* and Lat. *Diana*, the daughter of Jupiter and Latona, sister of Apollo, (Latona answering to Sans. द्योतना *dyōtanā*, 'the goddess of dawn') and Gr. *Zav*, Doric form for Ζην, 'Zeus.'

16. To this word द्युस् *dyas*<sup>1</sup> or दिवस् *divas* may be traced the Ang.-Sax. *daeg*, *daga*, *dah*, Eng. *day* and *dawn* (Ang.-Sax. *dagian*); Sans. सद्यस् *sadyas*, 'now,' अद्य *adya*, 'to-day,' द्यवि *dyavi*, 'in the day,' तदा *tadā*, 'then,' a contraction of तदम् *tadam*, तदानीम् *tadānīm*, which is a modification of तदम् *tadam* + इत् *it*, तदम् *tadam*, Lat. *tandem*, meaning 'then' and इत् *it*, 'also or even,' Vedic सदमित् *sadamit*,<sup>2</sup> which is composed of सदम् *sadam*,

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<sup>1</sup> I derive प्रादुस् *prāduś*, 'brightness,' 'openness,' from प्र *pra*, 'much,' and द्युस् *dyus*, 'day,' 'brightness.'

<sup>2</sup> पा॒हि॒स॒द॒मि॒दि॒शायुः.—Rig Veda, I. 27, 2.

*Pāhisadamidviśāyuh.*

'Protect (me) always, everlasting.'

'always,' and इत् *it*, 'even,' इदा *idā* and इदानीम् *idānīm*, 'now,' perhaps Lat. *donicum* and *donec*, 'as long as' or 'while,' *denique* and *demum*, 'at last,' 'at length,' *tamdiu*, 'so long,' *quondam*, which is a modification of *quumdam*, 'at a certain time,' 'at one time,' *diu*, 'by day,' and *dum*, 'while,' Gr. *τηνικα*, *τηνικαδε*, 'at this or that part of the day,' *τηνικαυτα*, 'at this particular part of the day,' *δην*, Dor. *δαν*, 'for a long while,' *δη* and *ηδη*, 'now,' 'already,' *δαι*, 'then,' as in 'τι *δαι*,' 'what then,' *ήμερον*, *σημερον*, Doric *σαμερον* and Attic *τημερον*, 'to-day,' of which the Doric *σαμερον* may be metathetically modified as *μασερον* and, by the change of *m* into *v*, may give us the Sans. वासर *vāsara*,<sup>1</sup> 'a day.' I hold *ημαρ* to be a corruption of दिवस् *divas* or स्वस् *svas*, as well as the Lat. *tempus* (-*oris*), 'time,' by a natural change. Though Lat. *tempus* is usually derived from *temno*, 'to cut,' I would trace it to दिवस् *divas*.

17. Next come the Sans. ह्यस् *hyas*, 'yesterday,' स्वस् *svas*, 'to-morrow,' which may very easily be connected with Sans. द्यस् *dyas*, 'day,' by the change of *d* into *h* and *ś*. The Gr. *χθες* is a modification of ह्यस् *hyas*, and has ह *h* strengthened into *χ* and य *y* changed into *s* and then hardened into *θ*. Lat. *here* and *heri* are modifications of the same root ह्यस् *hyas*. Compare Sans. गद् *gad*, कथ् *kath*, 'to say,' चक्ष् *caks*, 'to say,' शंस् *śams*, 'to say or praise,' which are all allied forms and are contracted into क्था *khyā*, 'to say or proclaim,' and क्शा *kśā*, a modification of the same.

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<sup>1</sup> Or, it may better be derived from अतस *atasa*, 'brightness,' by the addition of *v* to the beginning of the word. (Vide अतस *atasa*.)

If  $\chi\theta es$  and *here* or *heri* are derived from  $\chi\theta es$  *hyas*, I do not see any reason why  $\chi\theta es$  *dyas*, which gives  $\chi\theta es$  *śvas*, may not be modified as *cras* in Latin, the processes of change being somewhat like those in  $\chi\theta es$ ,  $\chi\theta es$  *dyas* becoming *gyas*, *gsas*, *ksas* and at last *kras*, that is, *cras*.<sup>1</sup> The Sanskrit words  $\chi\theta es$  *sama*, 'a year' and  $\chi\theta es$  *samaya*, 'time,' seem to be traceable to  $\chi\theta es$  *divas*.

<sup>1</sup> Compare the following :

$\chi\theta es$  *śeyatē*, 'they sleep,' becoming  $\chi\theta es$  *śēratē*,  $\chi\theta es$  *śī*, 'to sleep,'

$\chi\theta es$  *ēdhēyan*, 'they may grow,'  $\chi\theta es$  *ēdhēran*; in which two instances  $\chi\theta es$  *y* is changed into  $\chi\theta es$  *r*.

$\chi\theta es$  *ēdhīyīsta*, 'may he grow,'  $\chi\theta es$  *ēdhīyīṣṭa* in which  $\chi\theta es$  *y* is changed into  $\chi\theta es$  *s*. (Vide List III, Conjugation.)

$\chi\theta es$  *ēdhīyīsan*, 'may they grow,'  $\chi\theta es$  *ēdhīyīran*, in which  $\chi\theta es$  *s* is changed into  $\chi\theta es$  *r* and  $\chi\theta es$  *y* into  $\chi\theta es$  *s*.

This law prevails to a great extent, also, in the Dravidian languages; e.g.

Sans.  $\chi\theta es$  *kāikēyī* *kāikēyī*, Tam.  $\chi\theta es$  *kāikēsi*, 'a wife of Daśaratha, father of Rama.'

Sans.  $\chi\theta es$  *kriyā* *kriyā*, Tam.  $\chi\theta es$  *kiriśai*, Kan.  $\chi\theta es$  *kelasa*, 'work,'

Sans.  $\chi\theta es$  *kr*, 'to do.'

Tel.  $\chi\theta es$  *cēsi*, 'having done,'  $\chi\theta es$  *cēyu*, 'to do' +  $\chi\theta es$  *i*, past participial termination.

In these instances *s* is used for *y*.

Tam.  $\chi\theta es$  *vāyū*, Tel.  $\chi\theta es$  *vāyīnōu*, (Sans.  $\chi\theta es$  *vād*, 'to play on a musical instrument'), Kan.  $\chi\theta es$  *bārisu*.

Tam.  $\chi\theta es$  *pāy*, 'to flow,' Kan.  $\chi\theta es$  *hāru*.

In these instances *r* is inserted for *y*.

It would appear from the examples that Lat. *kras* may directly come from *hyas*, or from Gr.  $\chi\theta es$  ( $\chi\theta es$ ) by the change of  $\chi\theta es$  into *r*.

18. द्यौस् *dyōs* is further modified as दोस् *dōs*, and, by the addition of ā at the end, becomes दोषा *dōṣā*, meaning 'night.'<sup>1</sup> From द्युस् *dyus*, we get द्युष्टम् *dyuṣtam* or द्युष्टि *dyuṣti*, and, by the change of *d* into *v*, व्युष्टम् *vyuṣtam* or व्युष्टि *vyuṣti*, व्युष्टम् *vyuṣtam* meaning 'dawn or daybreak' and व्युष्टि *vyuṣti*, 'dawn,' 'felicity' or 'happiness,' and also दिष्टम् *diṣtam*, 'fortune,' the decree of deity, in which last three इत् *st* is inserted for स *s* as in स्वस्ति *svasti* = स्वस् *svas* + इ *i*, स्वस् *svas*, 'happiness,' विष्टप *viṣṭapa*,<sup>2</sup> properly विस्तप *vistapa*, from विश्व *viśva*,<sup>3</sup> 'all' and विशु *viśu*, 'everywhere.' दिवम् *divam*, दिवा *divā*, 'day,'

<sup>1</sup>The Sanskrit word दोस् *dōs* and its modification दोषा *dōṣā*, meaning 'arms,' though identical in form with that which means 'night,' have no radical connection with it. I connect them with Sans. उरस् *uras*, 'breast,' Lat. *thorax*, Gr. *θωπαξ*, Ang.-Sax. *throte*, *throthu* and Eng. *throat*, Tam. *Ṭṭaṇṇ* *tōl*, 'arms,' and *Ṭṭaṇṇ* *ṭonṭai*, 'throat' and also Sans. क्रीड *krōḍa*, 'the space between the shoulders,' in which last the *θ* of the Gr. *θωπαξ* is represented by *k*.

<sup>2</sup> विष्टप *viṣṭapa* is simplified as विटप *viṭapa* by the elision of the स *s* and means 'extension as of a tree.' Also विष्टप् *viṣṭap* in the Veda.

<sup>3</sup> Compare also the following :

वृष् *vṛṣ*, 'a bull,' गृष्टि *grṣti*, 'a cow that has yeaned once.' Vide the Vṛṣan Group.

ग्मस् *gmas*, गभस्ति *gabhasti* (q. v.)

पृष् *prś*, 'back' (as in पार्श्व *pārśva*, 'back'), पृष्ठ *prṣṭha*, 'back,' मुष्टि *muṣṭi*, 'elbow,' Gr. *πυγῆ*, Sans. पुच्छ *puccha*, 'tail.'

are contractions of दिवस् *divas*. दिवस् *divas* gives also the words दिव् *div*, 'to shine,' 'to rejoice,' देव *dēva*, 'a god,' and देवता *dēvatā*, 'deity,' जीव् *jīv*, 'to live,' दीप् *dīp*, 'to shine,' ज्वल् *jval*, 'to shine,' and ज्वर् *jvar*, 'to be hot,' and the kindred words in other languages. दिव् *div*, taking the suffix मन् *man* (Gr. *μεν*, 'men,' Lat. *men*), becomes दिव्मन् *divman*, then द्युमन् *dyuman* and द्योमन् *dyōman*, (the *u* of द्यु *dyu* taking its *guṇa* form ओ *ō*) and at last द्योमन् *vyōman*, by the change of *d* into *v*, as in व्युष्ट व्युष्टा and व्युष्टि *vyuṣṭi*. This word, by the way, is shortened into व्युम् *vyum*, and is changed into वियुम् *viyum*, by the insertion of *i* between *v* and *y*, and, by the addition of *u* at the end, वियुत् *viyumu*, and then वियुम्बु *viyumbu*, by the use of *b* to strengthen *m*, and at last विसुम्बु *viśumbu*, by the change of *y* into *ś*; विसुम्बु *viśumbu* in Tamil means 'sky.' In Sanskrit व्योकार *vyōkāra* means 'a polisher of metals' or 'an iron-smith.' I see in this the word द्यौ *dyau* which, being modified as द्यो *dyō*, becomes व्यो *vyō*, by the change of *d* into *v* as in द्योमन् *dyōman*, द्योमन् *vyōman*.

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कासर *kāsara*, 'buffalo,' कस्तूरी *kastūrī*, 'bos grunniens,' Gr. *काστωρ*, 'the beaver.' Vide *Vṛṣan Group*.

खस् *was*, 'happiness,' समस्त *samasta*, 'whole' (*q. v.*)

कुसुम *kusuma*, 'flower,' कौस्तुभ *kaustubha*, 'a precious stone worn by Viṣṇu,' कुसुम्बु *kustumburu*, 'coriander.' I think the latter two words are derived from कुसुम *kusuma*, the original idea of which is 'hollow,' 'round.'

द्यौ *vyō* means 'brightness' and द्योकार *vyōkāra*, 'one who makes brightness.' This word द्योकार *vyōkāra* is, therefore, rightly applied to a polisher of metals, and then comes to mean, also, an 'iron-smith.' The word द्यौषम् *vyōṣam*, also, meaning the three medicinal plants, 'black pepper, long pepper and dry ginger,' which are believed to possess good medicinal virtues and therefore to remove sickness and give *brightness* to the countenance, comes from द्यौस् *dyaus*.

19. Now to make the reader understand the change of *d* into *v*, I shall introduce other examples which are, also, derived from the same root and in which the same change has taken place. From दिवस् *divas*, 'heaven,' we have दिवस्त्रान् *divasvān*, which, by the change of *d* into *v*, becomes विवस्त्रान् *vivasvān*, meaning 'sun.' As दिवस् *divas* is changed into विवस् *vivas* in विवस्त्रान् *vivasvān*, so the latter विवस् *vivas* is further changed into वियत् *viyat*, by the insertion of *y* for *v*, and *t* for *s*, and means 'heaven.' From वियत् *viyat*, we get वयस् *vayas*, 'a bird,' contracted into विस् *vis*, 'a bird,' विह *viha*, 'sky,' in which *h* stands for *y*, and *t* is cut off, and which occurs in विहग *vihaga*, विहंगम *vihāṅgama*, 'a bird,' विहायस् *vihāyas*, and विहा *vihā*, 'heaven.' वीक *vīka*, 'heaven or wind,' is another form of विहा *vihā*, and is found in विकिर *vikira* modified as विष्किर *viṣkira*, 'a bird,' in which latter *s* is used as in बष्कयणो *baṣkayaṇī*, Lat. *vacca*, 'cow,' to strengthen *k*. विहा *vihā* and वीक *vīka* are given in the Unadisūtra.

20. It is surprising to see that, while Jupiter is known

by allied words in the other kindred languages, as *Zeus*, *Zeusπατερ*, *Jovis*, *Tiu*, *Woden* and so on, in Sanskrit he is to be called **गुरु** *Guru*, **गीष्पति** *Gīṣpati*, **धिषण** *Dhiṣaṇa*, **इज्य** *Ijya*, **जीव** *Jīva*, **आङ्गिरस** *Āṅgīrasa*, **वाचस्पति** *Vācaspati*, none of which is connected with the above words. But I suspect that, in the word **बृहस्पति** *Brhaspati*, which has assumed a strange form by the addition of the vowel **च** *r* instead of **इ** *i* to **बृ** *b* to strengthen it, the real alliance is concealed. (Vide **दृग्** *drś* and the rule under it.) If so, the word **बृहस्पति** *Brhaspati* should be **बिहस्पति** *Bihaspati*, and a corruption of **दिवस्पति** *Divaspati*, and is to be applied to Indra as the now lord of **विहस्** *vihas*, 'heaven,' a word already derived from **दिवस्** *divas*. When the word was thus differentiated in form a separate origin was assigned to it, as consisting of **बृहत्** *brhat*, 'great,' 'speech,' and **पति** *pati*, 'lord.' **बृहस्पति** *Brhaspati* is called **वाचस्पति** *Vācaspati* in the Yajur Veda.

**बृहस्पतये वाचस्पतये नैवारंचहम्.** I. 8, 10.

*Brhaspatayē vācaspatēyē nāivāraṁcarum.*

'The nīvāra cake should be offered to Brhaspati, lord of speech.'

**वाग्बृहतीतस्याएषपतिः** Chāndogya, I. 2, 11.

*Vāgghibrhatī tasyā ēṣapatiḥ.*

'Speech is brhati; this (Āṅgīras), its master.'

This derivation is not, however, given in the Nirukta where the word is distributed as **बृहत्** *brhat* + **पति** *pati*,

**बृहत्** *brhat* being mentioned among the synonymes of **महत्** *mahat*, 'great,' and the same origin is given in the Vārtika on the sūtra (VI. 1, 157) of Pāṇini's Aṣṭādhyāyī:—

**तद्बृहतोः करपत्योः** *Tadbrhatōḥ karapatyōḥ.*

When the words कर *kara* and पति *pati* are combined with तद् *tad* and बृहत् *brhat* respectively, the final consonants of the latter two words are changed into स *s*, as तस्कर *taskara* and बृहस्पति *Brhaspati*. तस्कर *taskara* will however be connected with Lat. *dexterous* and shown to be the comparative degree of दक्ष *dakṣa*. Vide the last Group.

These mistaken derivations of the word बृहस्पति *Brhaspati* brought into existence such names as बृहतांपति *Brhatāmpati*, वाक्पति *Vākpati*, गीष्पति *Gīṣpati*, &c., and changed the position of Jupiter from that of the sovereignty of Heaven to that of the mastership of speech and the priesthood of the gods.

In the Vedic theogony Jupiter lost the sovereignty of Heaven which he enjoyed in the Hesiodic—a position universally assigned to him in the Aryan mythology. When the Aryans separated, this position was usurped by Indra whom the Hindus called दिवस्पति *Divaspati*.

बृहत् *brhat*<sup>1</sup> being contracted into बृह् *brh* and taking the suffix मन् *man*, becomes ब्रह्मन् *Brahman* and is applied to what is great, knowledge, hence to the Vedas, the Brahman, the creator, and a Brahmin. As वाक् *vāk*, 'speech,' is associated with *Brhaspati*, so सरस्वती *Sarasvatī*,<sup>2</sup> the goddess of speech, originally a river goddess, is associated

<sup>1</sup> The Tamil word *விளம்* 'big,' 'large,' 'great,' which is probably derived from बृहत् *brhat*, 'great,' has softened the vowel *br* into *i* and, when it means 'sky,' must be connected with Sans. वियत् *viyat*. Tam. *விடியல்* *Viḍiḷaḷ* is, also, traceable to वियत् *viyat*.

<sup>2</sup> सरस् *saras*, 'water' and the suffix वत् *vat*, 'having.'



with Brahman. In the sense of greatness and vastness the word ब्रह्मन् *Brahman* has yielded in Greek *μορμω* which has, however, degenerated in meaning and is applied to anything hideous, or a bugbear.

We thus see that the transformation, which the word विहस्पति *Vihaspati* underwent, has called into existence two Vedic characters बृहस्पति *Br̥haspati* and इन्द्र *Indra* who cannot be compared to any in the mythology of other Aryan nations.

The modification of the word विहस् *vihas* into बृहस् *br̥has* has also taken place in बृहत् *br̥hat*, 'large,' a word which I derive from विहस् *vihas*, 'heaven,' the idea of heaven giving that of vastness or extensiveness as seen also in विश्व *viśva*, 'all,' विषु *viṣu*, 'everywhere.' From विहस् *vihas* we get वहस् *vahas* and then बहल *bahala*, बङ्गल *bahula* by the change of the final स *s* into ल *l* as in Gr. *μεγαλ*, Sans. महस् *mahas* (vide p. 42). बहल *bahala* is shortened into बङ्ग *bahu*, Gr. *παχυς* and *πολυς*, Sans. भूरि *bhūri*, पुरु *puru* and Lat. *multus*.

21. द्योमन् *dyōman* is shortened into द्युमन् *dyuman*, and by the addition of अम् *am* at the end and the elision of the अ *a* of म *ma*, becomes द्युमम् *dyumnam*, 'wealth,' a source of happiness. द्युमम् *dyumnam* is modified as स्युमम् *syumnam*, 'happiness,' and सुखम् *sumnam* (Gr. *ἡμνος*), 'happiness,' thence, 'a hymn.'

22. From द्यौस् *dyaus* we get द्यौस *dyōsa* by the addition of the vowel *a*, द्योन *dyōna* by the change of *s* into *n* as in द्युस् *dyus*, दिन *dina*, and स्योन *syōna* by the change of *d* into *s*. स्योन *syōna* and its modification स्यून *syūna* are

words used in the Vedas, ह्योन *syōna* meaning 'happiness,' 'beautiful,' 'light,' 'sun,' and स्यून *syūna*, 'light,' 'sun,' &c. and allied to सून *sūnu*, Eng. *sun*, Ang.-Sax. *son*, Lat. *sol*, Sans. सूर *sūra* and सूर्य *sūrya*. स्यून *syūna* gives us स्यूम *syūma* by the change of न *n* into म *m*. It is a Vedic word meaning 'light,' 'happiness,' and is modified as सोम *sōma*, 'moon.'

23. द्यौस् *dyaus* is shortened into द्या *dyā*, and becomes ज्या *jyā*, by the change of *d* into *j* (as in *Jupiter*, दिवस्पति *divaspati*); ज्या *jyā* means 'earth,' 'mother,' 'bow-string.' Compare Gr. γη and γea, γᾱ, Doric and Aeolic for γη, and δᾱ, Doric. ज्या *jyā* means first 'earth,' and corresponds to γva, γη, γea, &c., and had an original form as द्या *dyā*, 'sky,' allied to the Doric form δᾱ of γη. The next meaning is 'a bow-string' which seems to be a secondary one; for the primary one is, no doubt, 'a curve or arch' which is preserved in the corresponding Greek word βιος, 'a bow.' The word ज्या *jyā* is found also in its original form द्या *dyā*, when it means a 'bow-string.' I therefore conclude that the name of sky, द्या *dyā*, was applied to a bow, which resembles the sky on account of its curved appearance; but in Sanskrit, the word which was so applied to the bow originally, was subsequently transferred to the bow-string. ज्या *jyā* also means 'strength, power, or excessive force,' an idea derived from the sky or bow, and answers to Gr. βια, 'bodily strength.'

24. As Sans. द्या *dyā* is modified as ज्या *jyā* (Gr. γva), so we have another modification of each of the above two words. By the elision of य *y* we get दा *dā* and गा *gā*

<sup>1</sup> ज्यामौर्वी मातृभूमिषु *jyāmaurvī mātṛbhūmiṣu*.—*Nānārtha Ratnamālā*. The word came to mean also 'mother' as the earth was considered mother and द्यौस् *dyaus*, 'heaven,' father.

which answer respectively to Gr.  $\delta\alpha$ , and  $\gamma\eta$  ( $\gamma\alpha$ ).  $\Delta\alpha$  is changed into  $\delta\eta$  as in  $\Delta\eta\mu\eta\tau\eta\rho$ , an old form for  $\Gamma\eta\mu\eta\tau\eta\rho$ , Lat. *Ceres*. But the form **दा**  $dā$  does not exist in Sanskrit but is modified as **इडा**  $idā$  (**इदा**  $idā$ ) which is pronounced in the Rig Veda as **इळा**  $ilā$ , and **इरा**  $irā$ . **इडा**  $Idā$  is a Vedic Goddess or the earth, the wife of Dyaus; and this  $Idā$  may be identical with  $Iḍa$  who nourished Zeus whom his mother  $\acute{P}ea$  placed in her care to protect him from  $Kpovos$ , her husband, who was devouring all her children. Gr.  $\acute{P}ea$  and  $epa$  are modified forms of Sans. **इडा**  $Idā$ .

25. But **आ**  $iyā$  undergoes a further transformation by the change of  $y$  into  $v$ , and then into  $m$ , and becomes **आ**  $jmā$ , meaning 'earth.' But this **आ**  $jmā$  is again changed into **ग्मा**  $gmā$  by the change of **ज**  $j$  into **ग**  $g$ ; or we may derive **ग्मा**  $gmā$  directly from **द्या**  $dyā$  by the change of **द**  $d$  into **ग**  $g$  and **य**  $y$  into **म**  $m$ . It is also metamorphosed into **क्षमा**  $kṣmā$ , by the change of **ग**  $g$  into **क्ष**  $kṣ$  and, by the insertion of **अ**  $a$  between **क्ष**  $kṣ$  and **म**  $m$ , is at last developed into two syllables as **क्षमा**  $kṣamā$ , 'earth,' and Gr.  $\chi\alpha\mu\alpha\iota$ ,<sup>1</sup> **क्षमायां**  $kṣamāyām$ , 'on the earth.' **क्षमा**  $kṣamā$  is found in the Veda in the form of **क्षम्**  $kṣam$ <sup>2</sup> as in,—

**यथाचिहृद्धमंतस मग्नेसंजूर्वचिचमि**. Rig Veda, VIII. 60-7.

*Yathācidvṛddhamatasa magnēsariṅjūrvasikṣami.*

'O God of fire, just as you burn dry sticks<sup>3</sup> on earth.'

<sup>1</sup> The word  $\chi\alpha\mu\alpha\iota$  is in the locative case and does not occur in other cases.

<sup>2</sup> Also as **क्षामा**  $kṣāmā$  as in **द्यावाक्षामा**  $dyāvākṣāmā$ , 'Heaven and Earth.'

<sup>3</sup> I take **अतस**  $atasa$  as meaning a tree. Vide the word further on.

It is from the word **ग्रा** *gmā*, I think, that the Vedic **ग्रा** *gnā*, which is interpreted variously in the Nighanṭu and Sayanā's Commentary and in the St. Petersburg Dictionary, is derived.

26. **ग्रा** *gnā* passes from the meaning of 'the earth' to that of 'a woman' and is modified as **अंगना** *aṅganā*. From **ग्रा** *gnā* are to be derived Sans. **जानि** *jāni*, 'wife,' **जनी** *janī*, 'daughter-in-law,' **जनि** *jani*, 'a woman,' Gr. *puvη*, Pers. **زان** *zan*, Tam. **நங்கை** *naṅgai* and **மாங்கை** *maṅgai*, 'a woman.' As **ग्रा** *gnā* comes from **द्या** *dyā*, so the form **गनुस्** *gnus* comes from **द्युस्** *dyus* and, by the change of **ग** *g* into **स** *s*, assumes the form of **सनुस्** *snus* from which we may derive **सनुषा** *snusā*, Gr. *vuos*, Lat. *nurus*, 'a daughter-in-law.' **गनुस्** *gnus* is also modified as **गोसिन्** *gōsin* by metathesis, and **जोषित्** *jōṣit* by the change of **ग** *g* into **ज** *j* and the hardening of **न** *n* into **त** *t*. **जोषित्** *jōṣit* means 'a woman' and is modified as **जोषा** *jōṣā*, **योषित्** *yōṣit* and **योषा** *yōṣā*. The form **गनुस्** *gnus* is changed into **गुनक्** *gunak* by inserting **क** *k* for **स** *s*, and then **गणिका** *gaṇikā*, 'a whore,' to which I trace the oblique cases of *γυνη*, Gen. *γυναικος*, Accus. *γυναικα*, Pl. *γυναικες* and *γυναικων* in all of which *κ* appears at the end.

Sans. **योषित्** *yōṣit* is modified as *uxor* in Latin by the insertion of *x* for *s*; and this modification occurs very frequently in Sanskrit, Greek and Latin and has concealed the close alliance of many a word in these languages. I therefore give a few examples.

Sans. **लस** *las*, 'to shine,' **लक्ष** *lakṣ*, 'to see.'

Sans. पाश <i>pāśa</i> ,	पक्ष <i>pakṣa</i> , 'side.'
„ काश <i>kāśa</i> ,	कक्ष <i>kaṁṣa</i> , 'a kind of grass.'
„ लेश <i>lēśa</i> , 'small' (Gr. ολιγος)	लिखा <i>likṣā</i> , 'louse.'
„ शैव <i>śēva</i> ,	क्षेम <i>kṣēma</i> , 'happiness.' (p. 13)
„ सुवर् <i>suvar</i> ,	क्षौम <i>kṣauma</i> , 'a lofty apart- ment in a house.' (p. 21)
„ „ „	क्षिप <i>kṣipa</i> , 'to throw.' (p. 20) (Gr. σκηπτω.)
„ मशक <i>maśaka</i> ,	मक्षिका <i>makṣikā</i> , 'a fly.'
„ सुषि <i>suṣi</i> , 'hole'	कुक्षि <i>kukṣi</i> , 'belly,' the origi- nal idea of कुक्षि <i>kukṣi</i> being 'hollow.'
„ सम् <i>sam</i> ,	{ Gr. ξυ, 'with.'
„ ईषिका <i>īṣikā</i> , 'grass'	{ „ συ
„ इषीका <i>iṣikā</i>	{ इक्षु <i>iṁṣu</i> , 'sugarcane.'
„ वृषन् <i>vṛṣan</i> ,	उक्षन् <i>ukṣan</i> , 'ox.'
„ वृष् <i>vṛṣ</i> ,	उक्ष <i>ukṣ</i> , 'to pour.'
„ निश् <i>niś</i>	Gr. νυχ, νυκτος } 'night,' Lat. <i>nox, noctis</i> } wherein <i>kṣ</i> is put for श <i>ś</i> , (that is, स <i>s</i> ), and then is hardened into <i>kt</i> .

For the guidance of the reader, I would here mention that wherever the letter श *ś* occurs in Sanskrit it may be treated as स *s* for all scientific purposes, and that the modern Aryan vernaculars often restore the original sound as Sans. क्रोश *krōśa*, कोस् *kōs*, 'a short distance'; पाश *pāśa*, पास *pās*, 'side.'

27. द्यौस् *dyaus* is also modified as already shown into द्यस् *dyas* and द्युस् *dyus*, meaning 'a day.' From द्यस् *dyas* we get ज्यस् *jmas*, as we get ज्मा *jmā* from द्या *dyā*, and, by the change of *s* into *n*, ज्यस् *jmas* is modified into ज्यन् *jman*, meaning 'sky' or 'earth'. I derive from ज्यस् *jmas*, ज्यस् *gmas*, which and the two former also are Vedic words meaning 'earth,'<sup>1</sup> गमस् *gamas*, by the insertion of *a* between *g* and *m*, and then गभस् *gabhas*, by the change of *m* into *bh*; and this गभस् *gabhas* gives us गभस्ति *gabhasti*,<sup>2</sup> as स्वस् *svas*, स्वस्ति *svasti*: गभस्ति *gabhasti* means 'light.' Again द्यौस् *dyaus* becomes द्योस् *dyōs*, ज्योस् *jyōs*, ग्योस् *gyōs*, and ग्मोस् *gmōs*, the processes of changing द्यौस् *dyōs* into ग्मोस् *gmōs* being similar to those taking place in changing द्या *dyā* into ग्मा *gmā*. But ग्मोस् *gmōs* may be altered into ग्नोस् *gnōs* by the change of *m* into *n*, and when

१ त्वंविश्वस्यमेधिरदिवस्यगमस्यराजसि

*Tvam viśvasyamēdhira divasācagmāśca rājasi*. I. 25, 20.

"O wise Varuṇa! thou shinest on all the earth and heaven."

अबोध्याग्निजर्मः *Abōdhyagnirjarmah*.

"The God of fire was awakened on earth." Rig Veda I. 157, 1.

अभिक्रत्वेन्द्रभूरधजमन् *Abhikratvēndrabhūradhajman*.

Rig Veda VII. 21-6.

"O Indra, thou hast by thy deeds excelled on earth."

<sup>2</sup> Or, it may be derived directly from दिवस् *divas*, and be a connecting link between दिवस् *divas* and युवस् *yuvas*, which latter will be mentioned further on.

*n* is hardened into *t*, we have रतोस् *gtōs*; and by changing *g* into *k* and aspirating *t* and *k*, we have रथोस् *kthōs*. This last form रथोस् *kthōs* may become χθων in Greek by the change of *s* into *n*, as in द्युस् *dyus*, दिनस् *dinam*, 'day,' and द्यौस् *dyaus*, स्योन *syōna*. In Greek, χθων means 'earth,' and Sans. चीणी *kṣōṇī* can be easily derived from it by the addition of the feminine suffix *ī*, and inserting च *kṣ* (क *k* + स *s*) for χθ as we do ξ for κς in Greek.

28. द्युस् *dyus* becomes द्युत् *dyut* by the change of स *s* into त *t* and means 'to shine'; and द्युत् *dyut* is also modified as ज्युत् *jyut* by inserting ज *j* for द *d* as in ज्या *jyā*, द्या *dyā*. द्युस् *dyus* may also assume the form of त्विष् *twiṣ*, 'to shine,' by hardening the initial द *d* into त *t*, cerebralizing the final स *s* into ष *ṣ* owing to the contact of the preceding *i* and changing *y* into *v* and the vowel उ *u* into इ *i*. The word त्विष् *twiṣ* seems to be allied to श्वित् *śvit*, the root of श्वेत *śvēta*, 'white,' and the idea of white may be derived from that of shining. श्वेत *śvēta* is modified as श्येत *śyēta* which also assumes the form of श्येन<sup>1</sup> *śyēna* by the change of त *t* into न *n*. श्येत *śyēta* is contracted into श्रिति *śiti* and सित *sita*, which words mean 'white' and 'black,' respectively.<sup>2</sup> I think that the idea of black is not radical and

<sup>1</sup> वर्णादनुदात्तात्तोपधात्तोऽनः—IV. i. 39. Pāṇini.

*Varṇādanudātātōpadhāttōṇah.*

<sup>2</sup> श्रितीधवलमेचकौ.—*Amara*, Canto III.

*Śitīdhavalamēcakau.* श्रिति *śiti* means 'white' and 'black.'

is attached to the word only by mistake or by a remote connection. *श्वेत svēta* may become *विशद viśada* by metathesis and by the change of त *t* into द *d*.

29. From *श्वेत svēta* we may get पीत *pīta*, 'yellow,' by the elision of the initial consonant, and from पीत *pīta*, पीतन *pītana* and पिंजर *piñjara*, 'yellow orpiment' and मंजिष्ठा *mañjiṣṭhā*, 'a kind of yellow wood,' of which the first part मंज *mañja* seems to be a modification of पीत *pīta* by the change of प *p* into म *m*. The Tamil word *பசு paśu* and *மஞ்சள் mañjaḷ*, 'yellow,' have modified पीत *pīta* similarly. I feel no doubt that the meaning and form of the Vedic मंश्चतु *maṁścatū*,<sup>1</sup> 'yellow,' point to the same origin.

The word occurs in the Rig Veda in the passage (VII. 44-3.)

दधि॒क्रावा॑णं बु॒बुधा॑नी अ॒ग्निमु॑प॒ब्रुव॑ उ॒षसं॑सूर्य॒गांस् ।

*Dadhikrāvāṇambubudhānōagnimupabruva uṣasamsūryāṅgām,*

ब्र॒ध्नमं॑श्चतो॒र्व॒णस्य॑ ब॒भ्रु॑तेवि॒श्वस्म॑द्दु॒रिता॑याव॒यन्तु॑ ।

*Bradhnamamaṁścatōrvaruṇasyababhruṁtēviśvāsmadduritāyāvayantu.*

'Knowing the horse called Dadhikrāvan, I praise Agni, Ushas, Sun, the cow and the great dun-colored (horse) of yellow Varuna.' Let them remove our sins.

30. As द्यौस् *dyaus* is modified as द्या *dyā* and becomes गया *gyā* and then गमा *gmā* as already noticed, it may

<sup>1</sup> The word is derived by Sāyana as,—

मन्यमानान्स्तुवंतो॒जना॑न्चेतयते॒जाना॑तीति; यदाभिमन्यमा

*Manyamānānstuavatōjanān cētayatējānātīti; yadvābhimanyamā-*

नांश्चातयतेनाशयतीतिमंश्चतुः

*nāṁścātayatēnāśayatītimanścatuh.*



also be modified as ग्यौस् *gyaus* and then ग्मौस् *gmaus* and at last ग्नौस् *gnaus* by the change of *m* into *n* as in ग्मा *gmā*, ग्ना *gnā*. This form ग्नौस् *gnaus* is again modified as ग्लौस् *glaus* by the change of न *n* into ल *l*. ग्लौस् *glaus* means 'moon,' and with its form changed into गोल *gōla* is applied to what is spherical. From गोल *gōla* we get Gr. *βωλος*, by the change of *γ* into *β*, as in *βovs*, Sans. गौस् *gaus* (q. v.). ग्लौस् *glaus* is changed into ग्लप्स *glapsa*,<sup>1</sup> 'a bunch as of fruits,' Lat. *globus*, *glomus*, 'a sphere,' *gleba*, 'a lump of earth.' गुल *gula* and गुड *gudā*, 'a lump of sugar,' have shortened the *o* of गोल *gōla* into उ *u*; and produced the verbal roots गुङ् *guḍ*, 'to cover,' घुट् *ghuṭ*, घुण् *ghuṇ*, घूर्ण् *ghūrṇ*, 'to turn,' 'to roll,' and the nouns गुलिका *gulikā*, 'a pill,' and घुटिका *ghuṭikā*, 'ankle,' so called on account of the round knotty bone projecting in that part of human body. गुण *guṇa* is a modification of

<sup>1</sup>अथास्यैयुग्मेनशलाटुग्लप्सेनत्रेण्याच शलत्यात्रिभिश्चकुश

*Āthāsyaīyugmēna śalātūglapsēna trēṇyāca śalatyātribhīścakūśa*

पिञ्जलेरूर्ध्वंसीमन्तंव्यूहति ॥ *Āśvalāyana Gṛhyasūtrā*.

*piñjūlāirūrdhvaṃ śīmantam vyūhati.*

शलाटुग्लप्सेनतरुणफलसंघातेन । शलाटुरितिअपक्वानां

*Śalātūglapsēnataruṇaphalasāṅghātēna, śalātūriti apakvānām*

फलानांसमाख्या । ग्लप्सदतिस्तबकउच्यते । औडुंबरस्तबकेन  
*phalānām samākhyā, glapsa itistabaka ucyatē, audūmarastabakēna*

शाखांतरेदृष्टत्वात् ॥ *Gārgyaṇārāyaṇavṛtti*.

*śāstrāntarē dṛṣṭatvāt.*

गुल *gula* or गुद *gudā* by the change of the second consonant into ण *ṇ*. Though the word गुण *guṇa* has several meanings, it is not one word. In its form we see two different words derived from two different sources. As meaning 'a rope,' 'bowstring,' 'repetition' (as in गुण् *guṇ*, 'multiply,' 'to repeat,' गुणनम् *guṇanam*, 'multiplication,' गुणनिका *guṇanikā*, 'repetition'), गुण *guṇa* is to be derived from ग्लौ *glau* as shown above. But when it means, 'quality,' 'nature,' 'property of material substances,' 'unimportant,' &c., it is to be traced to जन् *jan*, 'to be born'; for quality, nature, &c., are born in the thing in which they are found.

31. As दिवस् *divas* assumes the form of विद्यस् *viyas*, and then विहस् *vihas* as already shown, it assumes further changes. विहस् *vihas* is modified as महस् *mahas*, 'light' and महत् *mahat*, 'great.' (Compare बृहत् *br̥hat*, 'great').

महस् *mahas* means the fourth of the seven worlds which are above earth in the sky one above another, and in this meaning the word is modified as महर् *mahar* by the change of स *s* into र *r*. As the modified form of अतस *atasa*, 'air,' viz., अतल *atala* called into existence a new nether world and the corresponding Gr. Ἀτλας, just so did the above modified form of विहस् *vihas*, 'sky,' call into

१ गुणोमौर्ष्यामप्रधानेस्पादौसूदइन्द्रिये ।

*Guṇōmaurvyāmapradhānē rūpādausūdaiṇdriyē,*

त्यागेशौर्यादिसत्वादिसंध्याद्यावृत्तिरज्जुषु ।

*Tyāgēśaurvyādisatvādisandhyādyāvṛttirajjuṣu,*

शुक्लादावपिवव्यास ॥ *Mēdini.*

*Śuklādāvapivatyāñca.*

existence a new world above the sky. Compare भूर् *bhūr*, 'earth,' भुवर् *bhuvar*, 'the world above the earth,' the latter of which is merely a modification of the former and also सुवर् *suvar* from स्वर *sva*r, 'heaven.'

By the change of the final स *s* into ल *l*, महस् *mahas* becomes *μεγαλ* in Greek and, by the addition of the termination *os*, *μεγαλος*. But in the corresponding Lat. *major*, the middle syllable हीय *hīya* of महीयस् *mahīyas* (Gr. *μειζων*) is shortened into ह्य *hya* and then changed into *j* as द्या *dya* into *j* in *Janus*, and in *magum* महस् *mahas* has undergone a contraction by the elision of the penultimate vowel अ *a* and the change of the final स् *s* into न *n* as in अहस् *ahas*, 'day,' अहनि *ahani*, loc. case, अह्ना *ahnā*, instr. case; ऊधस् *ūdhas*, Gr. *ουθαρ*, 'udder,' ऊधनि *ūdhani*, loc. case in the Vedas, ऊध्ना *ūdhna* at the end of compound words.

The change of स *s* into ल *l* often takes place in the Aryan languages whether in the beginning or the end of a word; e.g.

Sans. सून <i>sūna</i> , 'sun' or 'a luminous body in heaven,'	Lat. <i>luna</i> , 'moon.'
„ सीमन् <i>sīman</i> ,	„ <i>limes (itis)</i> , 'limit.'
„ स्वर <i>sva</i> r,	Gr. <i>Ολυμπος</i> , 'Heaven.'
„ सरट <i>sarata</i> ,	„ <i>λακερτα</i> , 'a lizard.'
„ स्वैर <i>svaira</i> ,	Lat. <i>liber</i> , 'free.'
„ सैधव <i>saindhava</i> , 'belonging to the sea.'	Gr. <i>λαιτμα</i> , 'the deep sea.'
„ सस्यम् <i>sasyam</i> ,	„ <i>ληιον</i> , 'a crop' or 'crop of corn.'

Sans. शय <i>śana</i> ,	Gr. λινον, 'flax.'
„ सय <i>śavya</i> ,	„ λαιος, } „ σκαιος, } 'left.' Lat. <i>laevus</i> , } „ <i>scaevus</i> }
„ सिंह <i>śimha</i> ,	Gr. λεων, } „ λυξ, } 'a lion.' Lat. <i>leo</i> (n), }
„ शंबूक <i>śambūka</i> allied to कंबू <i>kambū</i> , शंख <i>śaṅkha</i> , Gr. κογχη, Lat. <i>concha</i> , Sans. काकणी <i>kākaṇī</i> , Gr. κοχλος, καλχη, χαλκη. }	Lat. <i>limax</i> (cis).

As from दिव *diva* we get विय *viya* and विहा *vihā*, 'sky,' as shown already, so from this we get महा *mahā* which is modified, also, as मही *mahī*. Both the words महा *mahā* and मही *mahī* are used in the senses of 'a cow' and 'earth.' महा *mahā* is modified as माहा *māhā* and माहेयी *mahēyī* (Vide गौस् *gaus*). वियस् *viyas* is modified as वयस् *vayas* as I have already shown, and then मयस् *mayas*, a word used in the Vedas in the senses of 'pleasure,' 'happiness,' 'food,' &c. From मयस्<sup>1</sup> *mayas* I derive a form मयूस् *mayūs* by changing the अ *a* of य *y* into ऊ *ū* and from this form, the word मयूख *mayūkha* by the change of स् *s* into ख *kh*. A similar process has taken place in the Gr. Βοιωτια, a word derived from Βοιωτος, the son of Ιτωνος who was the son of Deucalion and a king of Thessaly and the inventor

<sup>1</sup> मयस् *mayas* is allied to Gr. βιος, 'course of life,' 'lifetime.'

of the art of polishing metals. *Βοιωτία* is the name of a country of Greece, the mountains of which, especially Helicon, was frequented by the Muses. Some connect the word with *βους*, 'an ox,' and think that the name radically signified the land of pasture for cows. I would however trace it to *मयस् mayas* (Gr. *βιος*, 'lifetime') and ultimately to *द्यौस् dyaus*.

32. The words *दिति diti* and *अदिति aditi* are correlative terms evolved out of *द्युस् dyus*, like *तिथि tithi*. *अदिति aditi* is applied to the earth, cow, the mother of the Gods, and speech, and *दिति diti* is coined as an antithesis to *अदिति aditi*. The initial *अ a* of *अदिति aditi* is euphonic as in *इडा idā*. To this class belongs the Gr. *τιτνος*.

कोनोम॒ह्याअदि॑तये॒पुनर्दा॑त्पितर॑च॒दृशेय॑मा॒तरच॑॥

*Kōnōmahyāaditayēpunardātpitarāñcadṛśēyammātarañca.*

'Who will give me back to the great earth, that I may see my father and mother?'—Rig Veda, I. 24, 1.

अदि॑ति॒द्यौरि॑दि॒तिर॒न्तरि॑च॒मदि॑तिर्मा॒तास॒प्ति॒सपु॑त्रः

*Aditirdyauraditirantarikṣamaditirmātāsapitāsaputrah.*

विश्वे॑दे॒वाअदि॑तिः पञ्च॒जना॑अदि॑तिर्जा॒तिमदि॑तिर्ज॒नित्व॑म्॥

*Viśvēdēvāaditih pañcajanā aditirjātamaditirjanitvam.*

Rig Veda, I. 89, 10.

'Aditi is Heaven; Aditi, sky; Aditi, mother. He is father and son; he is all the gods, five peoples. He is birth, and the source of birth.'

In this passage Aditi refers to all-pervading power—a conception realized only in Zeus by the Greeks and the use of the masculine demonstrative pronoun leads us to think that Aditi is here applied to the highest god.

As the word **अदिति** *aditi* is a mere modification of **द्युस्** *dyus*, the initial **अ** *a* is an extraneous addition. The radical part **दिति** *diti* seems to have been modified as **क्षिति** *kṣiti*, 'earth.' **अदिति** *aditi*, like **मही** *mahī* and **पृथिवी** *prthivī*, is frequently associated with **द्यौस्** *dyaus*, 'heaven,' in the Vedas. **दिति** *diti*, her counterpart, was originally a deity invoked with other deities. But she became the mother of Giants (**दैत्य** *daitya*) subsequently. The Gr. **Τίτυος** was the son of Gaia or of Jupiter by Elara. He was of a gigantic size and his mother died in travail. He offered violence to Latona and, as a punishment for this, he was placed in Hell where his liver was continually devoured by a serpent.

The word **अदिति** *aditi* leads us to the Greek **Οδυσσεύς** which is formed from **द्यौस्** *dyaus* or **द्युस्** *dyus* exactly like the former, both of them containing the euphonic addition of a vowel. In the corresponding Latin *Ulysses*, the  $\delta$  of the Greek word is changed into *l*, a change for which many instances have been given in this List; as, *Laios*, *Latona*, *Ιλιον*, *Ιλυσ*, &c. **Οδυσσεύς** was king of Ithaca whose return from Troy to Ithaca forms the subject of a poem of Homer, called *Odyssey*.

33. Here I would mention another word formed from **द्युस्** *dyus* like **तिथि** *tithi* but different from the latter in having a nasal **न** *n* to represent the **स** *s* of **द्युस्** *dyus*. **द्युस्** *dyus* produces **दनु** *danu* as it does **दिन** *dina*, and **दनु** is modified as **दानु** *dānu*. These words originally mean 'a Heavenly being,' 'bright,' 'powerful,' and so on, and as such are applied to Indra, Maruts and other gods.

इतवृचमुदानवइन्द्रेणसहसायुजा । मानोदुश्शंसईशत ॥

*Hatavrtramśudānavaindrēṇasahasāyujā | Mānōduśśamsaīśata.*

Rig Veda, I. 23, 9.

‘O, Maruts, accompanied by many Danus; kill Vṛtra with the aid of the powerful auxiliary Indra. May our enemies not flourish.’

But Sāyana takes दानु *dānu* to mean ‘gift.’ I should however think that the word is connected with द्यौस् *dyaus* and means ‘bright,’ ‘powerful,’ or ‘strong,’ and is here applied to a ‘Heavenly being in general’ or perhaps the adjective सु *su* specifies the meaning and makes the word mean only ‘good spirits’ (*sc.* Maruts.)

In the following passage it is applied to Indra :—

दानुरस्माडपराङ्गिन्वतेदिवः Rig Veda, I. 54, 7.

*Dānurasmaūparāṅginvatedivah.*

‘Dārus (that is Indra) pours clouds to this sacrificer from heaven.’

But it is applied to Vṛtra in the following :—

धिष्वाश्वःशूरयेनवृचमवाभिन्हानुमौर्णवाभं ॥

*Dhiṣvāśvaśśūrayēnavṛtramavābhinaddānumaurṇavābham.*

‘O, valiant Indra! hold that power by which you have killed the giant Vṛtra like a spider.’—Rig Veda, II. 11, 18.

In modern Sanskrit literature, the word दानव *dānava* always means the sons of दनु *danu*, who are evil spirits, or Rākṣasas and are opposed to the gods.

The corresponding Greek word *Δαवाος* did not share the same fate as its Sanskrit counterpart. *Δαवाος* is the name of a son of Belus and Anchinœ, who was reigning in Egypt with his brother. Owing to the enmity which

arose between the brothers, Danaus emigrated to Argos with his fifty daughters and, in course of time, became king of the place. His brother followed him subsequently and brought with him his fifty sons who had been promised to the daughters of Danaus. But the king did not like the match and caused all the bridegrooms to be put to death by his daughters; and all the sons-in-law were murdered except one who married Hypermnestra, one of the daughters. The sisters were purified of the murder by the order of Jupiter, but according to some account they were punished in Hell.

I may perhaps connect with Sans. दनु *danu*, the Gr. Δαναη, daughter of Acrisius, king of Argos, of whom Jupiter was enamoured, and who bore to him a son named Perseus.

Gr. Δαναοι, originally meaning 'subjects of Δαναος,' was subsequently applied to all the Greeks (as in Homer) and offers a very interesting contrast to the Sans. दानव *Dānava* which has degenerated in its meaning and is now applied only to Rākṣasas, or Giants. Compare the word असुर *Asura* which was dealt with similarly in Sanskrit literature and which will be mentioned hereafter.

34. Here I would mention two Greek words which are formed from द्युस् *dyus* as Sans. तिथि *tithi*, 'day,' (Vide § 15)—Θιασος, a company or procession of persons dancing and singing in honor of a god as of Bacchus, and Θησευς, the most famous Athenian hero and son of Ægeus (अहस् *ahas*, 'day') and Αἰθρα (अतस *atasa*, 'sky.')

35. From द्यौस् *dyaus* we may derive Gr. Λαος, by the change of द *d* into λ as in λιβος, दृषद् *dr̥ṣad*, 'stone,' λαμπω, दीप् *dīp*, 'to shine,' लोक् *lōc*, लोक् *lōk*, 'to see,'



द्युस् *dyus*, 'day,' 'light,' and Latona द्योतना *Dyōtanā*. This derivation affords us a clue to explain the story of Laios and Jocasta (Ιοκαστη). Œdipus was the son of Laios. As the father had heard an oracle at Delphi that he would be killed by his own son, he exposed the child near the hill Kithairon. But the child was rescued and attained his age, and, while journeying to Thebes, he met his old father Laios and, in a duel which took place accidentally, he killed the latter. He continued his journey and met a monster called Sphinx who was laying waste the whole country with sickness and drought. He could not be defeated by any one except those who solved his riddles. When Œdipus approached the monster, the latter propounded his riddle as usual; and, when it was solved, he threw himself down from the summit of the mountain on which he had taken his seat; and the drought terminated with heavy showers of rain. The inhabitants of Thebes who had proclaimed that he who would deliver the country from the drought and sickness, should rule over the country and espouse the hands of Jocasta, the widow of the late king, offered to Œdipus the sovereignty of the country; and he thus became the king of the country and the husband of his own mother. But he was not allowed to rule long in peace and happiness. The sin of parricide was to be punished, and the Gods inflicted a plague on the city. When the people consulted the Delphian oracle, they were told that the plague was the result of the murder of Laios, and the murderer should be punished. In the long run, it became known that Œdipus was the murderer. In compunction for the sin committed Œdipus tore out his eyes and Jocasta committed suicide. Œdipus too died soon under the signal of Heaven. This story must simply refer to the heavenly phenomena which are of daily occurrence, viz., the brightness of the starry Heaven being absorbed in the rays of

the sun when the latter makes his appearance in the east, which may be referred to in the sun's taking *Iokaortn* (गभस्ति *Gabhasti*), the wife of द्यौस् *Dyaus*, his father; the gradual dimness of the sun in the evening, which corresponds to the unhappy reign of Œdipus after he was installed on the throne of his father and married his own mother; his loss of brilliancy, which corresponds to the death of *Iokaortn*; and, at last, his setting in the west, which corresponds to Œdipus' going to Heaven.

The reason of my connecting the sun with Œdipus is the fact that he is described as the second husband of his mother.

मातुर्दिधिषुमब्रवन्स्वसुर्जारः श्रुणोतुनः ।

*Māturdidhiṣumabravaṁ svasurjārah śruṇōtunah,*

भ्रातेर्द्रस्यसखामम् ॥ VI. 55, 5.

*Bhrātēndrasyasakhāmama.*

'I spoke of the second husband of his mother. Let the lover of his sister, brother of Indra and friend of mine, hear us.'

दूरेदृशेदेवजातायकेतवे दिवस्पुत्रायसूर्यायशंसत ॥ X. 37, 1.

*Dūredrśēdēvajātāyakētavē divasputrāya sūryāyashamsata॥*

'Praise Sūrya, farseeing, born of deity, knowing, and son of Divas (Heaven).'

The country which was governed by *Laios* was Θηβαι, Thebes, a name given to several cities of which the most important were the Egyptian and Boeotian; the symbolical meaning of which story is that Heaven personified is the ruler of Heaven, the place where he is to rule; for while *Laios* is द्यौस् *dyaus*, Θηβη, the singular form of Θηβαι, is only दिवा *divā*, or द्यावा *dyāvā*, 'Heaven.'

The word *Jocasta* may be shown to be a modification of Sans. *गभस्ति gabhasti*,<sup>1</sup> which I have already derived from *स्वस् svas* (through the forms *द्यस् dyas*, *ग्यस् gyas*, *ग्मस् gmas* and *गमस् gamas*), with which the Sans. *युवन् yuvan*, 'a youth,' *युवति yuvati*, 'a youthful girl,' Lat. *juvenis*, 'young,' and the corresponding Gr. *ἡβος*, 'youthful,' *ἡβη*, 'youth,' will be connected hereafter. *गभस्ति gabhasti* may be changed into *गवस्ति gavasti* by the change of भ *bh* into व *v*, into *यवस्ति yavasti* by the change of ग *g* into य *y*, and then *Ιοκαστη* by the change of व *v* into ग *g* and then into क *k* and of य *y* into ιο as in *Ιω (v)*, *यवन yavana*, (q.v.)

The last word that requires explanation is *Οιδιππος* which, as it is spelt, seems to be composed of two words, the latter being *ππος*, Sans. *पाद् pād*, 'leg.' The name of the sun which most closely resembles *Οιδιππος* is *अर्यमन् aryaman* in which the first part *अर्य arya* being modified as *अद्य adya* by the change of र *r* into δ, may be changed into *Οιδι* by the elision of य *y* and the lengthening of the previous vowel अ *a* into *oi*.<sup>2</sup>

On the change of *r* into *d*, compare :—

Sans. *वीर vīra*, 'strong,' Gr. Ved. *वीडु vīdu*, 'strength.'

*βριαω*, 'to be strong,'

Gr. *γυρος*, 'round,'

Sans. *गुड guda*, 'lump as of sugar.'

Sans. *शिखर śikhara*, 'crest,'  
'top,'

,, *शिखण्ड śikhanda*, 'the crest.'

,, *रैवत् raivat*, 'rich,'

Lat. *dives*, and *dis*.

<sup>1</sup> Or it may be derived from *युवस् yuvas*, 'bright,' 'young.'

<sup>2</sup> Vide *avros*.

Sans. द्वार *dvār*, 'gate,' Gr.

θυρα, धूर् *dhūr*,

'front,' which are

modified as तुर *tur*

and θυρ in तोरण

*tōraṇa*, 'festoon,' Gr.

θυρῶν (*uros*), 'the

doorway,' and तोलि

*tōli*, as in प्रतोलि

*pratōli*, 'high road.'

Sans. तुण्ड *tunda*, 'face.'

I would here observe that the letter ड *ḍ* was originally द *d*; and I may lay down for the guidance of the readers that wherever a cerebral letter occurs in Sanskrit it must be traced universally to a corresponding dental letter, and that, for all scientific purposes, the cerebrals in Sanskrit must be treated as dentals.

The latter part of अर्यमन् *aryaman* cannot be supposed to have been changed into πους, unless we assume that the ancient Greeks assigned a wrong etymology to the word and so assimilated the latter part to the word πους, meaning 'leg.'<sup>1</sup> I may suggest instead of the above word द्युपद् *dyupad* radically 'going in द्यु *dyu*, heaven,' or द्युमत् *dyumat*, 'shining,' 'having light,' corrupted into द्युपद् *dyupad*; or still better स्वपद् *svapad*, 'going in Heaven' modified as आपद् *svāpad* which in Sanskrit is applied to a 'wild beast,' 'beast of prey.' In this meaning it answers

<sup>1</sup> Compare Gr. Ἀτλας (*antos*) which I have connected lower down with अतल *atala* and ultimately अतस *atasa*, 'sky.'

to the Gr. *Oιδιπους*, referring to the prowling of wild beasts. If the word **श्वपद्** *śvāpad*<sup>1</sup> be a corruption of **स्वपद्** *svapad* as conjectured, it will be the origin of the Gr. *Oιδιπους*. It may, as it is, be distributed as **श्व** *śva* + **पद्** *pad*, **श्व** *śva* meaning 'swelling,' from **श्वि** *śvi*, 'to swell,' **पद्** *pad*, 'foot,' meaning therefore radically 'swollen-footed.'

The story of Œdipus, however, has greater points of resemblance to the description of Agni and the anecdotes occurring in the Rig Veda regarding him. In many places Agni is called son of Heaven and Earth. In the night the sky becomes dark and the earth receives the light of fire and this daily scene may have been symbolized in the story of Œdipus. In the following passage Agni is said to fight with his father.

**अवस्पृधिपितर्योधिविद्वान्पुत्रायस्तेसहसस्सूनजहे ॥** V. 3, 9.

*Avaspr̥dhipitaramyōdhivividvān putrāyastē sahasassūna ūhē ॥*

'O, god of fire, learned son and son of strength, thou putst down in battle thy father who has borne thee.'

In the passages of the Rig Veda, V. 2, 1 and the following five, Agni is said to have been kept in secret custody by the youthful mother (**युवतिर्माता** *yuvatirmātā*) and the people to have asked his mother to deliver him up to the father and to have complained "that they were deprived of their cattle, and their leader had to fight with his enemies. There was drought in the country, and, in consequence, no sacrifice was performed. The enemies have seized the king and the houses of the inhabitants, and the hymns of Atri should recover them."

I quote the passage here below and translate it:

<sup>1</sup> It is usually derived from **श्वन्** *śvan*, 'dog,' **पद्** *pad*, 'to go.'

कुमारं माता युवतिस्समुब्धं गुहाविभर्ति न ददाति पित्रे ।

*Kumārammātāyuvatis samubdhāṃ guhābibhartinadadātipitrē*

अनीकमस्य नमि नञ्जनासः पुरः पश्यति निहितमरतो ॥ १ ॥

*Anīkamasyanaminajjanāsah purahpaśyantinihitamaratau*

कमेतं त्वं युवते कुमारं पेषी विभर्षि मर्षिषीजजान ।

*Kamētantvaṃyuvatēkumāraṃ pēṣībībharpṣimarpṣījajāna*

पूर्वीर्हि गर्भः शरदो ववर्धा पश्यं जातं यदसूतमाता ॥ २ ॥

*Pūrvīrhi garbhāśśaradōvavardhā paśyañjātāmyadasūtamātā*

हिरण्यदन्तं शुचिर्वर्णमारात् चेत्तादपश्यमायुधमिमानम् ।

*Hiranyadantaṃśuci varṇamārāt kṣētrādapaśyamāyudhāmimānam*

ददानीं अस्मा अमृतं विपुक्किं मामनिद्राः कृष्णवन्नकुथाः ॥ ३ ॥

*Dadānīnōasmāamṛtaṃviprkvat kimmāmanindrāḥkṛṇavannanukthāḥ*

चेत्तादपश्यं नु तच्चरं तं सुमद्युधं पुरुषोभमानम् ।

*Kṣētrādapaśyamāsanutaścarantam sumadyūthamnapuruśōbhamānam*

नताग्रभुजजनिष्टृहिषः पलिकीरिद्युवतयोभवन्ति ॥ ४ ॥

*Natāgrabhujanajaniṣṭṛahiṣah paliknīridyuvatayōbhavanti*

केमेमर्यकं वियवन्तगोभिर्नयेषांगोपाश्रयं चिदास ।

*Keṃēmaryakamviyavantaḡōbhīr nayeṣhaṅgōpāraṇaścidāsa*

यद्दृष्टुं भुरवते सृजं त्वाजातिपञ्चउपनक्षित्वान् ॥ ५ ॥

*Yadṛṣṭuṃbhuravateṣṛjantvā jātipaśvāpanaśchikṛitvān*

वसाराजानं वसतिं जनानामरातयो निदधुर्मर्त्येषु ।

*Vasāmrājānamvasatiñjanānām arātayōnidadhurmartyēṣu*

ब्रह्माण्यत्रैरवतमिर्जानुनिदितारो निद्यासो भवन्तु ॥ ६ ॥

*Brahmāṇyatrēravatamīrjantuninditārōnindyaśōbhavantu.*

‘The youthful mother keeps her son secretly confined and does not give him up to the father. The people do

not see before them his (the son's) injured form placed in an unpleasant (place).'

'O, youth! what youth do thou keep as a devil (पेषी *pēṣī*) whom you brought forth as a matron (महिषी *mahiṣī*)? The child grew for the last (many) years and as the mother brought him forth, I saw him born.'

'I saw the child of golden teeth, of pure color and bearing weapons, from the neighbouring field. I am giving him nectar extensively; what can the people deprived of rain and sacrifice do me?'

'From the field I saw him wandering on his knee (सनुतः *sanutah*) happily and shining greatly like a herd (of cows). They did not (should not?) take, for he was born. Even old women become youthful.' (Regarding सनुतः *sanutah*, vide जानु *jānu*.)

'Who are those that took away the cattle from the men whose leader was not without battle? Let those who seized him give him up. Let the wise lead our cattle.'

'Enemies have seized the houses of the inhabitants and imprisoned their kings. Let the hymns of Atri restore him to the people and the calumniators be calumniated.'

The following passage occurs in the beginning of the commentary of Sāyana on the above passages and contains a tradition given in the Brāhmaṇa of Śātyāyana and another version of it given in the Tāṇḍaka Brāhmaṇa. The tradition is quoted there for the explanation of the meaning of the passages.

शाव्यायनब्राह्मणोक्ता इतिहासद्वयोच्यते ।

*Śātyāyanabrāhmaṇōkta itihāsa ihōcyatē*

राजात्रैवृणादस्त्राकु स्त्र्यरुणोऽभवदस्य च ॥ १ ॥

*Rājātrairvṛṇādastrāku stryaruṇōzbhavadasyaca*

पुरोहितोदृशोऽगार चविरासीत्तदाखलु ।

*Purōhitovṛśōjāra cchirāsītādākhalu*

संगृह्णन्तिरथावाज्ञां रक्षणाद्यपुरोहिताः ॥ २ ॥

*Saṅgrhṇantīrathāvajñāṁ rakṣaṇādyapurōhitāḥ*

त्र्यारुणस्थवृशोरस्मिं संजग्राहपुरोहितः ।

*Tryaruṇasyavṛśōrasmim saṅjagrāhapurōhitah*

कुमारोवर्त्मनिक्रीडन रथचक्रेणघातितः ॥ ३ ॥

*Kumārōvartmanīkrīḍan rathacakreṇaghātītah*

छिन्नःकुमारचक्रेण ममाराधपुरोहितः ।

*Chinnahkumārāścakreṇa mamārāḍhapurōhitah*

त्वंहंताख्येतिराजानं राजाचापिपुरोहितम् ॥ ४ ॥

*Tvamhantāsyēstirājānam rājācāpipurōhitam*

त्वंहंतास्यकुमारस्य नाहमित्यब्रवीत्तदा ।

*Tvamhantāsyakumārasya nāhamityabravōttadā*

यतस्त्वंरथवेगस्य नियंतातस्त्वयाहतः ॥ ५ ॥

*Yatastvaṁrathavēgasya niyaṁtātastvayāhataḥ*

रथस्वामीयतोराजन् तस्मात्तन्तस्यघातकः ।

*Rathasvāmīyatōrājan tasmāttvantasyaghātakah*

एवंविवदमानौतौ इच्छाकून्प्रद्युमागतौ ॥ ६ ॥

*Ēvamivadamānautau ikṣvākūṁpraṣṭumāgatau*

तौपप्रच्छतुरिक्षाकून् केनासौनिहतोद्विजाः ।

*Taupapracchaturikṣvākūṁ kēnāsaunihatoḍvijāḥ*

तेऽब्रुवन्वयन्तारं हन्तारं वृशसंघकम् ॥ ७ ॥

*Tēzbruvanrathayantāram hantāramivṛśasaṁghakam*

सवृशोवार्शनाघातकुमारमुदजीवयत् ।

*Savṛśōvārśanāghātakumāramudajīvayat*

एवमाख्यायतचैव पुनरन्यदुदीरितम् ॥ ८ ॥

*Ēvamākhyāyatatraiva punaranyadudīritam.*



यतहृत्कावोरागाङ्गुतारं च विममुवन् ।

*Yataikṣvākavōrāgāṅgūtāraṃ vimamubruvan*

तस्मात्तेषां गृहेष्वग्नेस्तेजो निर्गतमेषु च ॥ ८ ॥

*Tasmāttēṣāṃgrhēsvagnēstējōnirgatamēṣuca*

गृहेपाकादयोनासन्तत्कारणमचिन्तयन् ।

*Grhēpākādāyōnāsantatkāraṇamacintayan*

वृशंकुमारहन्तारं यद्वोचामतेननः ॥ १० ॥

*Vrśamkumārāhantāraṃ yadavōcamatēnanah*

अपाक्रमद्धरोवह्नेराह्वयामवृशंवयम् ।

*Apākramaddharōvahnērāhvayāmaṣṣamivayam*

इति संचिन्त्य तमृषिमाह्वयामासुरादरात् ॥ ११ ॥

*Itisañcintyatatamṛṣimāhvayāmāsurādarāt*

समागत्य ततश्शीघ्रं तेषामग्नेर्हरो भवेत् ।

*Samāgatyatataśśīghraṇtēṣāmagnērharōbhavēt*

इति वार्शेन साक्षासौ अकामयत पूर्ववत् ॥ १२ ॥

*Itivārśēnasāmnāsauakāmayatapurvavat*

एवंगायन् स च विर्ब्रह्म हत्यां

*Ēvaṃgāyaṇsaṣṣirbrahmahatyām*

भार्याजातां च सदस्योर्नृपस्य

*Bhāryājātāntrasadasyōrnr̥pasya*

पिशाचवेषां हरश्चादायचाग्नेः

*Piśācavēṣāṃharaādāyacāgnēḥ*

गृहान्नीत्वा कशिपौ स्थापयन्तीम् ॥ १३ ॥

*Grhānnītvākāśipausthāpayantīm*

दृष्ट्वा सम्यक्तद्भरस्तोषयित्वा

*Dṛṣṭvāsamyaktaddharastōṣayitvā*

साक्षापस्याद्योजयामास चाग्निम् ।

*Sāmnāpāścādyōjayāmāsa cāgnim*

ततस्वतेजास्संजातोऽभवत्पाकादिपूर्ववत् ॥ १४ ॥

*Tatassatejāssañjātōzbhavatpākādīpūrvavat*

एवंशाख्यायनेनीलताण्डकीक्षमयोच्यते ।

*Ēvamśātyāyanēnīlātāṇḍakīkṣamayocyate*

वृशःपुरोधामभवत्त्रसदस्योर्महीपतेः ॥ १५ ॥

*Vṛśahpurōdhābhavattrasadasyōrmahīpatēh*

सरथंधावययाजाम्राह्मणस्यकुमारकं ।

*Sarathamdhāvayanrājābrāhmaṇasyakumārakam*

विच्छेदरथचक्रेणप्रमादासोज्ज्वीदृशं ॥ १६ ॥

*Oicchēdarathacakrēṇapramādāsōjjvīdṛśam*

पुरोहितेवर्तमानेत्वयिमांहतिरागता ।

*Purōhitēvartamānētvayimāmhantirāgatā*

एषात्वयापनेतव्याश्चषिमित्यब्रवीन्पुः ॥ १७ ॥

*Ēṣātvayāpanētavyaśchṣimityabravīnnpah*

सश्चषिर्वाशसाक्षात्कुमारमुदजीवयत् ॥

*Saśchṣirvāśasāksātkumāramudajīvayat.*

‘I shall here narrate the tradition mentioned in the Brāhmaṇa of Śātyāyana. There was a king named Tryaruna in the dynasty of Ikṣvāku, son of Trivṛṣṇa, and his priest, the sage Vṛśa, son of Jara. The priests took possession of all the chariots for keeping them safe. The priest Vṛśa took the reigns of the chariot of Tryaruna. A boy who was playing on the road was run over by the wheel of the chariot. Trampled under the wheel the boy died. The priest then said to the king, “Thou art the murderer of the boy.” The king replied, “Thou art the murderer and not I. As thou art the regulator of the speed of the chariot, the child was killed by thee.” The priest then rejoined, ‘as thou art the owner of the chariot, thou art the murderer.’ Thus disputing they came to ask the Ikṣvākus.

They asked the Iksvākus, "By whom was the boy killed" ? They said that the charioteer whose name was Vṛśa was the murderer. Vṛśa revived the boy with a hymn called Vārśa. Having narrated thus, the author relates also something else in the same place. As the Iksvākus pronounced the Ṛṣi to be the murderer, the brilliancy of the fire in their houses was lost, and cooking and other works were no longer performed ; and they thought of the cause of that : "As we pronounced Vṛśa to be the murderer of the boy, our fire lost its brilliancy, therefore let us call him." Having thought thus they called the Ṛṣi respectfully. Then the Ṛṣi came and prayed as before that there be brilliancy in fire. Thus singing, he saw in the form of a demon the brāhman-murder arising from the wife of the king Trasadasyu, who, having taken away the brilliancy of fire to its house, was concealing it in her food, and, having propitiated the demon with his hymn, he restored the brilliancy to the fire. Then the god of fire became bright, and works such as cooking began as before.

'Thus was said by Śātyāyana ; and I shall now say what has been said by Tāṇḍaka. Vṛśa was the priest of the king Trasadasyu. The king driving his car killed accidentally the son of a Brahmin by the wheel of his car. He said to Vṛśa, "While thou my priest art, murder came to me ; it must be removed by thee." Then the Ṛṣi revived the boy by the hymn called Vārśa.'

Now comparing the story of Laius with that of Agni given in the commentary of Śāyana and that portion of it which is referred to in the Vedic passages quoted above, we get the following parallel conceptions : (1) The driving of a king in a car with his charioteer : (2) The death of a person. In the story of Laius, it is the king that dies and this event is caused by a duel arising accidentally between the king and Œdipus, but in the two versions

of the story given by Sāyana a Brahmin boy is killed by being run over by the wheel of the car of a king. But I should observe here that there is no reference to that accident in the Vedic version of the story. Nor do we learn from it anything as to who the boy was, whether he was the son of the king or the son of a Brahmin. (3) In the story of Laius, the whole country suffers from anarchy, drought and famine and the same appears in the Vedic story; but there is no reference to those events in the story given by Sāyana which, however, alludes to the extinction of sacrificial fire and the ceasing of cooking and other works in houses. (4) In the Greek story the mother marries the son and in the Vedic the youthful mother is said to have kept her son, but in the story of Sāyana there is no allusion to neither of those events.

From these points of similarity, it appears highly probable that the story was purely Indian and migrated to Greece like many other stories with various additions and subtractions.

In the Indian Mythology, besides the two given in the above, there are many others which are like the story of Laius, in all of which the common feature is the intercourse like that between Œdipus and Jocasta; such as the stories of Indra falling in love with Ahalya, the wife Gautama, and of Moon being fascinated by Tārā, the wife of Jupiter.

36. As द्यौस् *dyaus* is modified as द्या *dyā*, दा *dā* and at last इडा<sup>1</sup> *idā* and इळा *ilā*, so have we Ἰλιος, the land of Ἰλιον, Ἰλιος or Ἰλιον, the city of Ilios, the last two words exactly answering to Sans. दिवस् *divas* and दिवम् *divam* without the euphonic initial *i*. The war, therefore, which took place between the Greeks and the Trojans in the

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<sup>1</sup> Vide p. 35, and the Semitic Analogy at the end of the List.

land of *Ιλιον*, was a war in Heaven in which the victory was gained by Hercules (*अहस्कर Ahasakara*) and Achilles (*अहस् Ahas*), which two will be mentioned hereafter.

In comparison with the words *इळा ilā* and *इडा idā* and *Ιλιος* and *Ιλιον*, I may mention Lat. *Ilia* or *Rhea* and Gr. *Ιδυια*. *Ilia* was the daughter of Numitor, king of Alba, consecrated by her uncle Amulius to the service of Vesta. *Idya* (*Ιδυια*) was one of the Oceanides who married *Æetes*, king of Colchis, and by him became the mother of *Medea*.

In the Gr. *Λαος* there is no euphonic addition in the beginning of the word of such letters as *η, ι, ει, ο*, as in *ηλιβατος* (*स्वस् svas*); *इळा ilā*, *इडा idā*, *इरा irā*, *Ιλιος*, *Ιλιον*, *Ιδυια* and *Ilia*, (Sans. *द्या dyā*, Gr. *Δα*); *ειλαπαινη*, 'banquet,' (Sans. *तेमन tēmana*, Gr. *δειπνον*, 'meal time'); and *Ολυμπος* (*स्वर् var*), and *Οδυσσευς* (*द्युस् dyus*). Vide the above words.

37. From *द्यो dyō*, we can derive *द्योतन Dyōtana* by the addition of the suffix *तन tana*, which intensifies the meaning. According to the *Nirukta* (I. 8.), *द्योतना Dyōtanā* is a name applied to the Goddess *उषा Uṣā*, and in the following passage it comes with *अहना Ahanā*.

गृहं गृहमहनायात्यर्थादिवेदिवेशधिनामादधाना

*Gṛhaṅgṛhamahanāyātyacchādīvedīvēśadhīnāmādhānā.*

सिषासंतीद्योतनाशश्रदागादयमयमिहजतेवसूनाम्॥

*Siṣāsantīdyōtanāśaśvadāgādagramagramīdhajatevasūnām.*

I. 123-4.

'The God *Ahanā* every day goes to every house directly with much modesty; and *Dyōtanā* desirous of distributing comes frequently and receives what is best of wealth.'

*द्योतना dyōtanā* may be taken as a verbal noun of agency

from द्युत् *dyut*, 'to shine,' by the addition of the termination अन् *ana*, द्युत् *dyut* + अन् *ana* becoming द्योतन् *Dyōtana*, by the gunation of the *u* of द्युत् *dyut*. But to this I prefer the former origin. We have many instances in which तन् *tana* and तम् *tama* are added to nouns as well as to adjectives in the Vedas. Thus is formed गौतम *Gautama*, 'the name of a sage whose wife was अहल्या *Ahalyā*.' गौतम *Gautama* is held to be a patronymic of गोतम *Gōtama*, which is only a modification of द्योतम *Dyōtama* = द्यो *dyō* + तम् *tama*, द्यो *dyō* meaning 'light' or 'heaven,' and तम् *tama*, the intensive suffix. Similarly are formed वृषन्तम *vṛṣantama*, 'brave' = वृषन् *vṛṣan* + तम् *tama*, वृषन् *vṛṣan*, 'a bull' or 'chief,' अङ्गिरस्तम *Āṅgirastama*, 'the greatest Āṅgiras,' अङ्गिरस् *Āṅgiras* (Gr. *αγγελλος*), 'a sage,' and 'a bright planet in heaven,' &c.

Agni is called Āṅgiras in Rig Veda, I. 31, 1 :

त्वमग्नेप्रथमोऽङ्गिराः *Tvamagnēprathamōaṅgirāḥ*.

'O! God of fire, you are the first Āṅgiras (bright.)'

In the following stanza he is called Āṅgirastama :—

त्वमग्नेप्रथमोऽङ्गिरस्तमः *Tvamagnēprathamōaṅgirastamah*.

Rig Veda, I. 31, 2.

'O! God of fire, you are the greatest Āṅgiras (bright.)'

Vide the word अङ्गिरस् *Āṅgiras* mentioned further on.

Similarly we have कण्वतम *Kaṇvatama* from कण्व *kanva* which radically means 'bright,' as अङ्गिरस् *Āṅgiras*, and is connected with कन् *kan*, Gr. *γανω*, 'to shine.' Vide कण्व *Kaṇva*, which word will be explained lower down.

The words *Latinus* and *Latmus* and *Latona* are to be analyzed in the same way. As *Latona* consists of Sans. द्यौस् *dyaus* and तन *tana*, the termination *tona* corresponding to तन *tana*, so *Latinus* and *Latmus* must be distributed as *Laus* + *tinus* and *Laus* + *timus*, the latter parts *tinus* and *timus* answering to Sans. तन *tana* and तम *tama*. Compare Lat. *intimus*, *optimus*, *ultimus*, and Gr. *φθιμος* = *φθιος* + *τιμος*, Sans. इभ्य *ibhya* + तमस् *tamas*.<sup>1</sup> *Latinus* was a son of Faunus and Marica and was the king of the aborigines in Italy, who were named Latini and the country Latium (Italy) from him. *Latmus* is a mountain of Caria near Miletus, and was famous for the residence of Endymion who was visited by Diana every night. For *Latona*, see p. 25.

To the same word द्योतना *Dyōtanā* may be traced the Teut. *Wodin*, appearing also in another form as *Wuotan*<sup>2</sup> and shortened in the English word *Wednesday*, Ang.-Sax. *Woden-es daeg* (Sans. द्योतनस्यदिवस *Dyōtanasyadivasa*), *es* being equal to Sans. स्य *syā*, genitive singular suffix.

In the Teutonic word *Wuotan*, the initial द *d* of द्योतन *Dyōtana* is changed into ब *b* first and then व *v*. Compare विहस् *vihas*, Gr. *βιος* from Sans. दिवस् *divas*, 'sky.'

38. द्या *dyā* is modified as स्या *syā* and then as ह्याया

<sup>1</sup>The words *φθιμος* and Sans. इभ्यतमस् *ibhyatamas* mean 'mighty' and 'wealthy' respectively and must be connected, though they are usually derived from different sources, e. g., *φθιμος* from *φθι*, the dative plural of *ις*, 'strength,' and इभ्यतमस् *ibhyatamas* from इभ *ibha*, 'an elephant,' because the possession of elephants indicates wealth.

<sup>2</sup>Cox's *Mythology of the Aryan Nations*, Vol. I, p. 368, *et seq.*

*chāya*, Gr. *σκια*, 'light.' *हाया chāyā*<sup>1</sup> is further modified as *हवि chavi* by the change of the final *या ā* into *इ i* and of *य y* into *व v*. *हवि chavi* means 'light.' By a similar process we get from *द्या dyā*, Gr. *Koios* and Sans. *कवि Kavi* or *काव्य Kāvya* meaning *Śukra*, that is, the planet Venus. The original meaning of the word *कवि kavi* is 'bright' or the planet Venus, then 'bright with knowledge,' 'a sage,' 'a weaver,' 'a poet.' From *कवि kavi* are derived Gr. *ὑφαίνω*, 'to weave,' 'to make a composition,' *कुविंद kuvinda* (*ὑφαντης*), 'a weaver,' in which the radical part *कुव kuv* is nearer to the Greek root than to the Sanskrit. With *कवि Kavi* may be compared Gr. *Koios*, who was a son of Heaven and Earth, as mentioned in the following passage:—

. . . . . *αὐτὰρ ἔπειτα*  
*Οὐρανῷ ἐννηθεῖσα τέκ' Ὀκεανὸν βαθυδίνην,*  
*Κοῖόν τε Κρείόν θ', Ὑπερίονά τ' Ἰαπετόν τε,*

133-134, Hesiod's *Theogony*.

'Moreover, she having been brought to the bed of Heaven gave birth to Cœus, Crîus, Hyperion and Iapetus.'

In his notes on the above passage Mr. Paley, a commentator, says: '*Koios* may mean intelligent from *Koëiv*, or perhaps 'sky.' (Compare *Cohus*, i. e., *coelum* quoted by Festus, and Juno Covella).'

I thoroughly agree with the commentators in thinking that the word *Cohus* is connected with *coelum* as it is allied to a class of words to which I have already referred when speaking of *coelum* (p. 11). It will be very interesting

<sup>1</sup> *हाया chāyā* means also the wife of the Sun, reflection, and shade.



for the readers to know that in Sanskrit, too, the sky is called गहनम् *gahanam* (गाथ *gātha*, 'Ṣaṭvs,' depth, गाह् *gāh*, 'to dive'), महाबिलम् *mahābīlam*, 'great pit,' and सुषिरम् *susīram*, 'pit,' the last word being mentioned in the Unādi Sūtra (I. 52) and taken by the commentator in the senses of 'a hole' and 'sky.'<sup>1</sup> But from what I have said we can easily see that Mr. Paley was wrong in connecting *Cohus* with *Koios*.

As for the other word *Covella*, however, I think with him that it is connected with *Koios*. *Covella* must be a feminine diminutive form of such a word as *Covus* which is identical with *Koios*, and is obsolete in Latin.

The above comparison of the word *Koios* with Sans. कवि *kavi*, settles its ultimate origin from स्वर *sva*r, 'heaven.'

Cœus was father of Latona (द्योतना *Dyōtanā*, q. v.), Asteria, &c., by Phœbe, and son of Uranus and Terra.

I would connect with कवि *kavi*, Gr. σοφος, 'learned,' 'wise,' σοφία, 'learning,' Lat. *sapio*, 'to be wise,' and *sapient*, 'learned,' and *caveo*, 'to be cautious.'

As we have in Greek *Koios* corresponding to कवि *kavi*, so have we in Sanskrit सूर *sūra* corresponding to सूरि *sūri*, both the words meaning 'a sage.' As *Koios* originally meant 'bright,' and, having been modified as कवि *kavi*, was applied to the planet Venus, then a sage, so did the word सूर *sūra* originally meaning 'bright,' 'the sun,' come to mean also 'a sage.' This word has already been connected with स्वर *sva*r, 'heaven.' (Vide p. 34.)

<sup>1</sup> सुषिरं हि द्रमाकाशश्च *Susīramchidramākāśaśca*. I. 52.

Ujvaladatta's Commentary on Unādi Sūtra.

I have thus been led by my investigations to anticipate such a word as कव *kava* in Sanskrit, which is found only in the modified form of कवि *kavi*, and I have at last discovered the existence of the word in the former part of the compounds कवारि *kavāri*, कवसख *kavasakha*. They occur in the following passages :

दैवी॑पू॒र्तिर्दे॒विणा॑दे॒वय॒ज्या॒नक॑वा॒रिभ्यो॑न॒हिते॑पृ॒णन्ति॑

*Daiivīpūrtirdakṣiṇādēvayajyānakavāribhyōnahiteprṇanti.*

अथान॒रःप्र॑यतद॒क्षिणा॑सोवद्य॒भिया॑ब॒हवः॑पृ॒णन्ति॑ ॥

*Athānarahprayatadakṣiṇāsōvadyabhiyābahavahprṇanti.*

‘The sufficient divine fee of the divine sacrifice is not refused (not given) by the enemies of the Kavas (sc. Aryans). If they please (the Gods), many men do so, having given the fee by fear of sin.’—Rig Veda, X. 107, 3.

I have differed from Sāyana for whose interpretation I refer the reader to the commentary of that scholar, and construed the passage in the following way :—

दैवी॑पू॒र्तिर्दे॒वय॒ज्या॒दक्षि॑णा॒कवा॑रिभ्यो॒नही॑ति॒नः॒अथ॑तेपृ॒णन्ति॑,

*Daiivīpūrtirdēvayajyādakṣiṇākavāribhyōnahītina ; athateprṇanti,*

अवद्य॒भिया॑प्रयतद॒क्षिणा॑सोव॒हवो॑न॒रःपृ॒णन्ति॑॥

*avadyabhiyāprayatadakṣiṇāsōbahavōnarahprṇanti.*

कवारिभ्यः *kavāribhyah* in the above passage would naturally refer to the enemies of the कव *Kava*, that is, I think, non-Aryans. This meaning is supported by the use of the word in the following passage :—

अपा॑प॒श॒कस्त॑त॒नुष्टि॑मू॒हति॑त॒नू॒शुभ्रं॑म॒घवा॑यः॒कवा॑स॒खः॑ ।

*Apāpaśakrastatanuṣṭimūhātitanūśubhrammaghavāyahkavāsakhaḥ.*

Rig Veda, V. 34, 3.

‘Indra who is powerful and the friend of the Kavas, destroys the bright-bodied enemies of ceremonies.’

But in the above passages Sāyana understands by the word कव *kava*, ‘little,’ ‘despicable,’ as in the word कवोष्ण *kavōṣṇa*, ‘little warm,’ in which कव<sup>1</sup> *kava* means ‘little,’ and in that meaning the word may be simply a development of the syllable को *kō* of कोष्ण *kōṣṇa*. But according to Dr. Haug, the author of the ‘Essays on the Parsis,’ there is a word of the same form as कवि *kavi* in the Zend which was applied to a priest of the Deva religion as opposed to the Ahura Mazda religion in contempt. But he says that it looks very strange that the same word कवि *kavi* should be applied to “the highly celebrated personages of Iranian Antiquity, such as Kavi Husrava (Kaî Khusro), Kavi Kavâta (Kaî Kabâd), Kavi Vishtâspa (Kaî Gushtâsp), and has become, in its derived adjectival form “Kayanian,” the designation of a whole dynasty of the ancient Bactrian rulers.” He then mentions such an expression as Kavâ Vish-tâspa used instead of Kavi Vishtâspa and thinks that *Kavi* was modified as *Kava* to avoid the bad idea implied by the word. But I differ from him and think that *Kava* was the original form, and कवि *kavi*, a modified one, as सूर *sūra* and सूरि *sūri*, which I have derived from the same root स्वर *sva*, from which were derived कव *kava* and कवि *kavi*. Answering to Lat. *Caius* and *Caia* which are used as titles to proper names, Gr. *Koios*, a son of *Oupovos* and Γεα and Gr. σοφος, ‘wise,’ we should have कव *kava* for the original form and not कवि *kavi*.

<sup>1</sup> Cf. कवतिर्यङ् *kavatiryāṇ*, ‘a little horizontal.’ *Tait. Sam.* and *Āpast. Śr. Sūtra*. Here कव *kava* points to the original क *kva*, ‘which.’

Many other Sanskrit words which originally ended in अ *a*, have changed the final अ *a* into इ *i* and the original ending reappears when they come as the latter parts of compound words ; e. g.,

अंगुलि *āṅguli*, 'finger,' from अग्र *agra*, 'top,' (*q.v.*); अंगुल *āṅgula* as in त्र्यंगुल *tryāṅgula*, 'having three inches.'

रात्रि *rātri*, 'night,' from लस्त्र *lastra*, 'brightness' (*q.v.*); रात्र *rātra* as in द्विरात्र *dvirātra*, 'two nights.'

सखि *sakhi*, 'friend,' from सह *saha*, 'with' (*q.v.*); सख *sakha* as in विष्णुसख *Viṣṇusakha*, 'friend of Viṣṇu.'

अक्षि *akṣi*, 'eye,' from अग्र *agra*, 'top,' or लक्ष् *lakṣ*, 'to see,' by the elision of the initial ल *l*; अक्ष *akṣa* as in पद्माक्ष *padmākṣa*, 'having lotus-like eye.'

सक्थि *sakthi*, 'thigh,' from जघन *jaghana*, 'abdomen'; सक्थ *saktha* as in दीर्घसक्थ *dīrghasaktha*, 'long-thighed.'

नाभि *nābhi*, 'navel,' from नभस् *nabhas* (Gr. *ομφαλος*), 'sky' (*q.v.*); नाभ *nābha* as in पद्मनाभ *padmanābha*, 'having lotus-like navel.'

For the convenience of the readers, I extract here the following passage from Dr. Haug's Essays on the Parsis, pp. 290-91.

"These two names, *kavi* and *karapan*, designate in the fullest sense all the spiritual guides of the professors of the Deva religion, who tried to put down the adherents of the Ahura Mazda religion, and we necessarily find, therefore, a bad meaning attached to them in the Gāthas. This appears the more strange, as the word *kavi* itself forms

part of the names of highly celebrated personages of Iranian Antiquity, such as Kavi Husrava (Kaī Khusro), Kavi Kavāta (Kaī Kabād), Kavi Vishtāspa (Kaī Gush-tāsp), &c., and has become, in its derived adjectival form "Kayanian," the designation of a whole dynasty of the ancient Bactrian rulers.

"Here the question naturally arises, how could a designation, which distinguished the bitterest enemies of the Zoroastrian religion, be applied to kings who were, like Kavi Vishtāspa, believed to be its staunchest friends and protectors? The only reasonable answer is, that, before the outbreak of the schism, when the Iranians and Brahmans lived peacefully together, the Kavis were at the head of both communities; and that, on account of their violent opposition to the religious and social reforms which were adopted by some of the Aryan tribes, such as the Iranians, their very name was branded, and became a word of abomination with the Zoroastrians. But the designation having been already closely connected with their ancient history, and having become the constant epithet of some of their greatest heroes and kings, it was difficult, nay, impossible, to expunge it entirely in its good and high sense from the language. The adversaries of the Kavis, therefore, had to rest satisfied with a slight change of the hateful word when they wished to use it with a good meaning. Thus we actually find this word in the old texts, when forming part of the names of the great Iranian heroes and kings, changed from its only true and original form *Kavi* into *Kavā*, as for instance, *Kavā Vishtāspa*, instead of *Kavi Vishtāspa*."

I should, however, as already stated, think that the Zend word was *Kava* in its original form and subsequently modified as *Kavi*. As applied to proper names, it must have retained the original meanings, *viz.*, 'wise,' 'learned,'

‘great,’ though slightly altered in its form as कवि *kavi*. The word is used in Sanskrit in those very meanings, and the degeneration of it in the Zend must therefore be of a subsequent date and was only in its application to the priests of the Deva religion (Hindu religion).

The Sans. कव *kava* taking the suffix य *y* becomes कव्य *kavya*, meaning ‘wise,’ ‘learned,’ and is applied also to the Manes, a class of celestials who preside over the spirits of deceased persons, and then to the oblations offered to them in contrast to what is given to the Deities (हव्य *havya*.) I would connect with कव *kava*, कायस्थ *kāyastha*, ‘accountant.’

Even in the word गय *gaya*, I see some alliance to the Sans. कव *kava*, and it is in its form similar to Gr. *Koios* and to Sans. कव *kava*. गय *gaya* means ‘goods,’ ‘chat-tels,’ (cf. गौस् *gaus*), for in primitive times the property of men consisted in the cattle they possessed. The next meaning is ‘house,’ ‘household,’ and ‘family.’ As a proper name it is applied to several persons and among others to a giant who was killed at the holy place called *Gayā* by the Gods.

39. The word द्यौस् *dyaus* is modified as द्यस् *dyas* as in सद्यस् *sadyas*, then ग्यस् *gyas* by the change of द *d* into ग *g* and then ख्यस् *khyas*. This form is modified as *Xaos* in Greek, which means ‘space,’ personified by Hesiod. The wife of *Xaos* is *Taia* or *Tη* (Sans. ज्या *jyā*). As द्यौस् *dyaus* and पृथिवी *prthivī*, ‘Heaven and Earth,’ are always associated as husband and wife in the Rig Veda, so are *Xaos* and *Taia* in the Greek mythology. The Latin expression ‘*Ubi tu Caïus, ego Caïa*’ may be explained best by reference to Sans. द्यौस् *dyaus* and ज्या *jyā*, ‘Heaven

and Earth,' and Zeus and Δα. A similar expression occurs in a Vedic passage which is to be repeated by the bride-groom in the marriage of the Yajur Vēdi Brahmins :—

सात्वमस्यमूहममूहमस्मि सात्वम् द्यौरहंपृथिवीत्वम्<sup>1</sup> ॥

*Sātvamasyamūhamamūhamasmisātvamidyaurahampṛthivītvam.*

Tait. Mantrapraśna, 3.

<sup>1</sup> The same passage occurs in the Atharva Veda. Commenting on the above passage, Haradatta says :—

सेत्युगभिधानम् अमेतिसावः । सैवनामच्छगासीत् अमोसा

*Sētyugabhidhānam amētisāmah | Saivanāmācchagāsīt amōsā*

मेतिबह्वृचब्राह्मणो दर्शनात् । त्वं सासि अमोहं । संहिताकाले

*mētibahvṛcabrahmaṇō darśanāt | Tvamśāsi amōham | Samhitākālē*

ओकारस्य ऊकारः । बह्वृचानां त्वमोहमिति पाठः । एष एवार्थः

*ōkārasya ūkārah | Bahvṛcānāntvamōhamiti pāṭhah | Eṣāēvārthah*

पुनरुच्यते अमूहमस्मि सात्वम् । यथा ऋक्सामे परस्परं संब

*punarucyātē amūhamasmisātvam | Yathārṣksāmēparasparamśambad*

द्धे एवमावामपीत्यर्थः । द्यौरहंपृथिवीत्वं । औराधर्यं

*dhē ēvamāvāmapītyarthah | Dyaurahampṛthivītvam | Aurādharyam*

(द्यौरधर्यम्) अत्र विवक्षितम् ॥

*(āhauramdharyam ?) atravivakṣitam.*

‘सा *sā* is the name of the Rig Veda, and अम *ama*, that of Sāman, (for) “(the name) सा *sā* itself was Rk and अमो *amō*, Sāman,” thus is said in the Brāhmaṇa of the Rig Veda. You are सा *sā* (that is Rk) and I am अमो *amō* (that is, Sāman). In the Sandhi *ō* becomes *ū*. The Rig Vedis, however, read it as अमोहम् *amōham*. The same meaning is repeated. I am ‘*amō*’ and thou art ‘*sā*.’ “Just as the Rk and Sāman are united with each other, so are we also,” is the purport. I am द्यौस् *Dyaus* (Heaven) and thou art पृथिवी *Prthivī* (Earth). Here it is desired to say that one bears the burden of the other.’ Regarding अमो *amō*, vide § 65.

The same expression occurs also in the corresponding Vedic passage which is to be recited by the bridegroom in the marriage ceremony of the Rig Vēdi Brahmins. As the passage does not occur in the Rig Veda, Āśvalāyana quotes it *in extenso* in his Gṛhya Sūtra.

अमोहमस्मिन्वात्वंवात्त्वमस्यमोहंयौरहंपृथिवीत्वम्. 1. 7.

*Amōhamasmisūtvāmsūtvamasyamōhamidyaurahampṛthivītvam.*

The above passage means "I am he, thou art she; thou art she, I am he. I am *Dyaus* (Heaven) and thou art *Prthivi* (Earth)." The same is the meaning of the passage quoted from the Yajur Veda. But the Latin extract means 'wherever thou art Caius, I am Caia.' We can, however, see the agreement of the meanings of those passages easily by comparing Caius with Sans. द्यौस् *Dyaus* and Caia with ज्या *Jyā*,<sup>1</sup> and interpret them by Heaven and Earth respectively. But the Romans who used to repeat the passage never knew the meanings of the words Caius and Caia and thought that they were meaningless words. In his *Roman Antiquities*, p. 404, Mr. Adam, speaking of the marriage of the ancient Romans, says: "A new married woman was called Caia from Caia Cæcilia, or Tanaquil, the wife of Tarquinius Priscus, who is said to have been an excellent spinster and housewife."<sup>2</sup>

40. स्वस् *svas* is modified into स्पृश् *spāś*, Gr. *σκοπεω*, Lat. *specio* and means 'to see.' In the Dhātupāṭha this root is mentioned, but the above meaning is not given, though in the words स्पृष्ट *spāsta*, 'well seen,' 'clear' and स्पृश् *spāśa*, 'a spy,' the meaning is clearly seen. The

<sup>1</sup> Cf. Gr. *Kotos*, Sans. कव *kava* and कवि *kavi* and गय *gaya* which have already been mentioned.

<sup>2</sup> Vide Smith's *Antiquities*, and Cox's *Introduction to Mythology*.



Vedic word स्पश् *spāś* used in the following passage must be connected with the above root.

बिभ्रद्वापिहिरण्यवर्णोवस्तनिर्णिजम् ।

*Bibhraddhrāpimhiranyayanvaruṇōbastanirṇijam*

परिस्पशोनिषेदिरे ॥ Rig Veda, I. 25, 13.

*Parispāśoniṣēdirē.*

‘Varuṇa holding a clean golden armour wore it, and (from the armour) rays were issued on all sides.’

In his Commentary on the above passage, Sāyana says :

स्पशःहिरण्यस्पर्शिनोरश्मयः ॥ - - - स्पशः स्पशबाधन

*Spāśah hiraṇyaspārśinō raśmayah - - - Spāśah spāśabādhana*

स्पर्शनयोः । किप्चेतिक्विप् ॥

*spārśanayōh | kvip cēti kvip.*

‘स्पशः *spāśah* means rays which touch (are issued from) gold. The root स्पश् *spāś* means ‘to teaze,’ ‘to touch.’ (The suffix) किप् *kvip* (is added to the root स्पश् *spāś*) according to the sūtra (of Pāṇini), किप्च *kvipca* (III. 2, 76).’ He takes the word स्पशः *spāśah* to mean ‘those which touch’ (*sc.* golden armour) radically and thence from the context ‘rays or light issued from it.’ The difficulty which Sāyana thus felt in explaining the meaning of स्पश् *spāś*, was surely owing to Pāṇini’s not mentioning ‘to see’ or ‘to shew’ as one of the meanings of the root स्पश् *spāś*. I would, therefore, take the word स्पश् *spāś* to mean ‘light,’ and derive it directly from the root स्पश् *spāś*, ‘to see.’<sup>1</sup>

<sup>1</sup> Cf. पस्पशे *paspaśē*, ‘showed’ or ‘explained,’ as in Rig Veda, I. 22, 19 and अस्पष्ट *aspastā*, ‘saw,’ as in I. 10, 2, *idem*.

41. The root **स्पर्श** *spas* is modified as **पश्** *pas* and means 'to see,' and is substituted for **दृश्** *drś* in the conjugational tenses; and also as Sans. **भास्** *bhās*, **भा** *bhā*, 'to shine' and **भी** *bhī*, 'to fear,' **भीष्** *bhīṣ*, 'to cause to fear,' **भाष्** *bhāṣ*, 'to speak,' and the allied Greek and Latin words.

The Gr. *φῆμι* and Lat. *for*, 'to speak,' proceed from the Sans. **भा** *bhā*, 'to shine,' which is a contraction of **भास्** *bhās*, 'to shine,' and the idea of speaking originates from that of shining or causing to shine, as in **भाष्** *bhāṣ*, 'to speak,' as also in **भ्राज्** *bhrāj*, 'to shine,' Gr. *φραζω*, 'to speak,' Gr. *φραδης*, Lat. *fraus*, 'cunning,' Sans. **भारती** *bhāratī*, 'speech,' Lat. *pres*, 'speaker,' as in *interpres*, 'translator,' Ang.-Sax. *specan*, Ger. *sprechen*.

Similarly originates from the same idea of shining that of fear. Compare **भर्त्सयति** *bhartsayati* (§ 45). The Gr. *φοβος*, 'fear,' and *φοβew* are reduplicated forms of **भी** *bhī* as Sans. **पिब्** *pib*, 'to drink,' **पा** *pā*, 'to drink.' The Sans. **भ्यस्** *bhyas*, 'to fear,' is traceable to the same source.

42. **स्पर्श** *spas* produces also **क्वथ्** *kvath*, 'to boil,' by changing the initial **स्** *s* into **क्** *k*, the following **प** *p* into **व** *v* and the final **श्** *ś* into **थ** *th*; and also **खिद्** *svid*, 'to perspire'—an idea which originated from the radical one of 'to be hot;' and the corresponding words, Gr. *ἰδρω*, 'to perspire,' *ιδος*, 'sweat,' Lat. *sudo*, 'to sweat,' and *sudor*, 'sweat.' By the elision of the initial **स्** *s*, **स्पर्श** *spas* is modified as **पच्** *pac*, Lat. *coquo*, and Gr. *πεσσω*, 'to bake.' Lat. *focus* corresponds to Sans. **पाक** *pāka*; and Lat. *fecudus* which was wrongly spelt as *foecudus*, is in form allied

to Sans. पचत् *pacat*, as *secundus*, 'second,' to Sans. सचत् *sacat*, सच् *sac*, 'to follow.' (Vide Note 1, p. 11, and § 65.)

43. From स्वर *svar* can be derived, also, स्फुर *sphur*, 'to shine,' स्पृट् *sput*, 'to become plain or visible,' hence 'to burst out,' मिष् *miṣ*, 'to keep awake,' विष् *viṣ*,<sup>1</sup> 'to be seen' (as in वेष्ट *vēṣa*, 'appearance'), मील् *mīl*, स्मील् *smīl*, क्षील् *kṣmīl*, श्मील् *śmīl*, 'to close as a flower.' मिष् *miṣ* is modified in Latin as *vigeo*, 'to be lively,' *mico*, 'to shine,' *nico*, 'to beckon,' *niteo*, 'to shine,' *nicto*, 'to wink.' In the last word *nicto*, Sans. मिष् *miṣ* is changed into *niko*, and *t* is added as in Gr. σκηπτω, Sans. क्षिप् *kṣip*, 'to throw,' Gr. χαλαπτω poetic for χαλαπαίνω, 'to deal hardly,' from χαλαπος, 'rough.'<sup>2</sup> Gr. φυλασσω is allied to Sans. विष् *viṣ* of which the initial व *v* is changed into φ and the final स *s* into λ. The Gr. εἰρων, 'dissembler,' comes from विशन् *viṣman*, 'shiner.'

From स्फुर *sphur* is derived Sans. फुल् *phul*, 'to burst as a flower.'

<sup>1</sup> This root is not given in the Dhātupāṭha, and वेष्ट *vēṣa* and its modification वेश *vēśa* are usually derived from विश् *viś*, 'to enter.' I think, however, that वेश *vēśa* and वेष्ट *vēṣa* are allied to the Vedic पेशस् *pēśas*, 'form' and मिष *miṣa*, 'pretext,' Gr. εἰρων, 'a hypocrite,' and are traceable to the root विष् *viṣ*, 'to be seen' or 'to shine,' which appears in वेष्टि *vēṣti*, 'light,' given in the Nirukta, II. 6.

<sup>2</sup> Or, we may suppose that the final स *s* of मिष् *miṣ* is changed into *ks* and *s* is hardened into *t* in Lat. *nicto*, as in निश् *niś*, Gr. νυκτ, 'night.' (Vide § 26.)

44. From द्यस् *dyas* we get दस् *daś* and then लस् *las*, 'to shine,' Gr. *λυκη* and Lat. *lux*, 'light,' लक्ष् *lakṣ*, 'to see;' the proper names *Λυκος*, *Λυκτος* and *Δικτη*; and लक्ष् *ṛkṣa*, 'star,' Sans. निष् *nīś*, Gr. *νυξ*, Lat. *nox*, 'night,' रात्रि *rātri* modified as रात्रि *rātri*, 'night' (p. 68), which is a corruption of लस्त्र *lastra*, 'brightness.' From लस् *las* we may derive लसित्रम् *lasitram*, 'brightness,' converted into लक्षत्रम् *lakṣatram* by the change of स *s* into क् *ks*,<sup>1</sup> as in लक्ष *lakṣa*, लस *lasa*, and then नक्षत्रम् *nakṣatram* by the change of ल *l* into न *n* as in नग्न *nagna*, 'naked,' लज् *lajj*, 'to be ashamed,' a word which will be shown presently.

From लस् *las* I would derive लज् *laj* and लाज् *lāj*, 'to menace,' लज्ज *lajj*, 'to be ashamed,' from the last of which comes नग्न *nagna*, 'naked.' In the first two words the original idea seems to be 'to shine,' 'to be brilliant,' which produces the secondary one of 'to menace.'<sup>2</sup> Compare, Sans. भी *bhī*, 'to fear,' भा *bhā*, 'to shine.'

<sup>1</sup> Vide § 26.

<sup>2</sup> भर्त्सयतिर्जयतेसंतर्जतिलज्जति लाजति च।

*Bhartsayatītarjayatēsantarjatīlajjatīlājatica,*

लज्जतिलज्जतितुल्यास्तर्जयति च दृश्यतेकविभिः॥

*Lanjatīlānjatitulyāstarjayaticadr̥śyatēkaviḥbhīh.*

*Ākhyātacandrikā.*

In भर्त्सयति *bhartsayati* which is equal to भ्रासयति *bhrāsayati* modified as भार्सयति *bhārsayati*, the *t* is inserted euphonically between *r* and *s* as in Gr. *εσθλος*, *εσλος*, 'good,' in which *θ* is inserted between *σ* and *λ* and as in Lat. *tonstris* = *tonsor* + *is*.

Sans. भीषयति <i>bhīṣayati</i>	{ भासते <i>bhāsatē</i> , भास् <i>bhās</i> , 'to shine.'
„ भेषति <i>bhēṣati</i>	
„ भेषते <i>bhēṣatē</i>	
„ भर्त्सयति <i>bhartsayati</i>	{ भासयति <i>bhrāsayati</i> , भास् <i>bhrās</i> , 'to shine.'
	{ भाजते <i>bhrājatē</i> , भाज् <i>bhrāj</i> , 'to shine.'
Gr. <i>Οκνος</i> , 'cowardice.'	{ अनक्ति <i>anakti</i> { अञ्ज् <i>anj</i> , 'to be visible.'
„ <i>Οκνέω</i> , 'to shrink.'	

As too much brightness dazzles the spectator, and produces fear in him, so it exposes also the person who is seen, to the view of the spectator and makes him shy or ashamed; so that the word 'to shine' comes to mean 'to menace,' 'to fear,' and 'to shrink.' The Sans. नग्न *nagna* exactly corresponds to the Eng. *naked* which is traced to the Ang.-Sax. *nacod*, the root of which is found in the M. E. *naken*, 'to lay bear.' This root is evidently connected with Sans. लस् *las* both in form and meaning and the alliance of the roots is settled when we consider that लस् *las* yields the radical part नग् *nag*<sup>1</sup> of नग्न *nagna* in Sanskrit itself. Similarly is derived from लस् *las* Tam. னகு *nagu*, 'to laugh,' னகை *nagai*, 'ornament;' Kan. ನಾಚಿ *nācige*, and Tel. సిగ్గు *siggu*, 'shame,' లడ *lāḍ*, Lat. *ludo*, 'to be merry,' Lat. *rideo*, Gr. γέλω and Sans. हस् *has*, 'to laugh.'

<sup>1</sup> Compare Pers. نور *nūr*, 'light'; also Tam. எலும்பிஞ்சை *elumiñjai*, 'lemon;' Kan. ನಿಂಬೆ *nimbe*; Sans. लवण *lavana*, Arab. ملح *namak*, Hind. नोन *nōn*, 'salt'; Gr. λιτρον, a kind of orange, Sans.

नारङ्ग *nāraṅga*.

<sup>2</sup> The idea of shining produces that of laughing.

45. स्वस् *svas*, 'happiness,' may be modified as स्वद् *svad*, 'to taste,' स्वाद् *svādu*, Gr. ἡδύς, Lat. *suavis*, 'sweet,' in which last the final द *d* of Sanskrit is changed into व *v*, a change which has taken place in many instances, such as दिवस् *divas*, विद्यस् *viyas*, 'sky,' and especially in the Latin past tenses ; e.g.

Lat. *amavi*, 'I have loved,' from *amo*, 'to love,' which corresponds to Sans. कमितोस्मि *kamitōsmi*, taking कमित *kamita* as an active participial adjective meaning 'having loved.' कमितोस्मि *kamitōsmi* would, therefore, mean 'I have loved.' If कमितोस्मि *kamitōsmi* is changed in Prakrit into कमिदोस्मि *kamidōsmi*, and the last part ओस्मि *ōsmi* undergoes the same change as the last part of भवामि *bhavāmi* undergoes in Greek, that is, being reduced to a mere long syllable as *ω* as in *φύω*, we shall have कमिदो *kamidō* for कमितोस्मि *kamitōsmi*. Again, the final द *d* is changed into य *y* and then also into व *v*, as in

Sans. चक्षितस् <i>calitas</i>	}	Prak. चक्षियो <i>caliyō</i> .
Prak. चक्षिदो <i>calidō</i>		
Prak. गदो <i>gadō</i>	}	Hind. गया <i>gayā</i> , 'he went.'
Sans. गतस् <i>gatas</i>		
Prak. दिदो <i>didō</i>	}	„ दिया <i>diyā</i> .
Sans. दत्तस् <i>dattas</i>		
Prak. भूदो <i>bhūdō</i>	}	„ ऊवा <i>huvā</i> , 'he became.'
Sans. भूतस् <i>bhūtas</i>		

In these instances त *t* is changed into द *d* and then into य *y* or व *v*.

We have similarly कमिवी *kamivō* for कमितोस्मि *kamitōsmi*, a form which is almost identical with Lat. *amavi* in which the root *am* answers to Sans. कम् *kam* and the final *i* to *ō*. In this way, I think, most of the past tense forms in Latin ending in *vi* can be accounted for.

I would observe here that this theory accounts for all perfect forms in Latin except those which are reduplicated. Thus *avi* in *amavi*, which is, as shown above, a corruption of Sans. इतोस्मि *itōsmi*, appears, also, in the following forms :

<i>Cupivi</i> , 'I have desired,'	<i>cupio</i> , 'to desire,'	} <i>ivi</i> .
<i>Sapivi</i> , 'I have been wise,'	<i>sapio</i> , 'to be wise,'	
<i>Vetui</i> , 'I have forbidden,'	<i>veto</i> , 'to forbid,'	} <i>ui</i> .
<i>Micui</i> , 'I have glittered,'	<i>mico</i> , 'to glitter,'	

When the past participial termination त *t* is added without the augment द *i*, we have instead of इतोस्मि *itōsmi* तोस्मि *tōsmi* which is shortened into *do* and then *di*; and this *di* is modified as follows :—

*Pluvi*, 'I have rained' = *plu* + *di* (Sans. प्लुत *pluta*, 'floated'). Compare ऊवा *huvā* mentioned above.

*Stravi*, 'I have spread,' (Sans. स्तीर्ण *stīrṇa* for स्तीर्त *stīrta*, Gr. *στερως*) = *stern* + *di* = *stren* + *di* wherein *stern* becomes *stren* by metathesis = *stre* + *di*, by the elision of the final *n* from *stern*, Gr. *στροπυ* and Sans. स्तृष् *strn*.<sup>1</sup>

<sup>1</sup> According to Pāṇini's enunciation the roots of स्तीर्ण *stīrṇa*, वृत् *vrta*, लीन *līna*, हित *hita* and स्पृत् *sprta* are स्तृ *str*, वृ *vr*, ली *lī*, हि *hi* and स्पृ *spr*, but for a scientific comparison I have given them as स्तृष् *strn*, वृष् *vrn*, लीन् *līn*, हिन् *hin* and स्पृष् *sprn*. (Vide Conjugation.)

*Crevi*, 'I have separated,' Sans. *वृत्* *vṛta*, Gr. *κπιros* = *cern* + *di* = *cren* + *di* = *crevi* as in the preceding, *cern*, 'to separate,' Sans. *वृण्* *vṛn*, Gr. *κπιv*.

*Livi* or *levi*, 'I have besmeared' = *lin* + *di*, *lin*, 'to besmear,' Sans. *लीन्* *līn*, 'to be absorbed.'

*Sivi* (Sans. *हित* *hita*), 'I have allowed' = *sin* + *di*, *sin*, 'to allow,' Sans. *हिन्* *hin*, 'to send.'

*Sprevi* (Sans. *स्पृत* *spṛta*), 'I have despised' = *spern* + *di* = *spren* + *di* by metathesis, *spern*, 'to despise,' Sans. *स्पृण्* *spṛn*, 'to love.'

In the above instances *di* is changed into *vi*.

*Augvi*, 'I have increased' = *aug* + *di* = *auk* + *si*, *augeo*, 'to increase.'

*Vivi*, 'I have lived' = *viv* + *di* = *vig* + *si* = *vik* + *si*, *vivo*, 'to live.'

*Struxi*, 'I have built' = *struv* (Sans. *दृभ्* *drbh*) + *si*, *struo*, 'to build,' in which root the final *v* of the root *struv*, answering to Sans. *दृभ्* *drbh*, 'to compose,' and Gr. *τρεφω*, 'to make firm,' is elided; and the same *v* reappears in *struxi* and is then changed into *k*.

*Clausi*, 'I have shut' = *claud* + *di*, *claudio*, 'to shut' = *claus* + *si*, in which the final *d* of the root and the initial *d* of the termination are changed into *s*'s and the first *s* is elided.

*Divisi*, 'I have divided' = *devīd* + *di*, *divīdo*, 'to divide.' The processes of change are the same as in the preceding, the only difference being the lengthening of the vowel *i* into *ī* owing to the elision of *s*.

*Vīdi* = *vīd* + *di*, *vīdeo*, 'to see;' the *d* of *vīd* being elided, the preceding vowel is lengthened as in the previous example.

Compare Lat. *vīde* (the singular of the imperative second person of *vīdeo*, 'to see') = *vīd* + *de*, Sans. *विद्धि* *viddhi*,



Gr. *ισθι*, the final *d* of *vid* being elided, the preceding vowel is lengthened; as in Sans. एधि *ēdhi* (Gr. *ισθι*) = अस् *as* + धि *dhi* = अध् *adh* + धि *dhi*, in which the final ध *dh* of the radical part अध् *adh* being cut off, the preceding vowel अ *a* is lengthened into ए *ē*.

The explanation of the perfect form in Latin, *Amavi* above given, is followed by the corollary that *amavēram*, the indicative pluperfect of *amo*, 'to love,' should be = *amavus* + *eram*, the past tense of the root *esse*, 'to be;' *amavēro*, the second future, = *amavus* + *ēro*, the future tense of *esse*, 'to be;' *amavissem*, subjunctive pluperfect, = *amavus* + *essem*, the subjunctive imperfect of *esse*; *amavērim*, the perfect subjunctive = *amavus* + *erim*; *amavisse*, the perfect infinitive = *amavus* + *esse*. More will be said on the subject in my Comparative Grammar of Sanskrit, Greek and Latin, which is under preparation.

46. The Lat. *sapio*,<sup>1</sup> 'to taste,' and the noun *sapor*, 'taste,' are connected with *suavis*, 'sweet.' The Sans. शीधु *śīdhu*, 'wine,' (Gr. *ῥῆς*), comes from स्वाद् *svādu*.

47. To the same source स्वद् *svad* are traceable Sans. मधु *madhu*, Gr. *μελι* (*τ*), Lat. *mel*, 'honey,' मिलिन्द *milinda*, Gr. *μελιττα*, 'a bee,' मधु *madhu*, Gr. *μεθυ*, Lat. *merum*, 'wine,' Sans. मैरेयम् *mairēyam*, 'toddy,' मरन्द *maranda*, 'honey of flowers,' Gr. *μάλθα* and *μάλθη*, 'a mixture of wax and pitch for calking ships,' 'a wax laid over writing tablets.' मरन्द *maranda* is modified by the addition of क *k* between म *m* and र *r* as मकरन्द *makaranda*. This law of syllabic development will account for the changes

<sup>1</sup> Or, it may be connected with कवि *kavi* and Gr. *σοφος* (q. v.).

undergone by several words in Sanskrit and Dravidian languages ; e. g.,—

Sans. मूल <i>mūla</i> , 'root,'	Sans. मुकुल <i>mukula</i> , 'a bud.'
„ मूर्ध्नि <i>mūrdhan</i> , 'head,'	„ { मकुट <i>makuta</i> , मुकुट <i>mukuta</i> , } 'a crown or coro- net.'
„ तूल <i>tūla</i> , 'cotton,'	„ दुकूल <i>dukūla</i> , 'cloth.'
„ नारङ्ग <i>nāraṅga</i> , 'a kind of orange,'	„ नागरङ्ग <i>nāgaraṅga</i> , 'a kind of orange called <i>citrus</i> <i>aurantium</i> .'
„ गौर <i>gaura</i> , 'red,'	„ { कावेरी <i>kāvēri</i> , the Kavery (cf. पीतकावेर <i>pītakāvē-</i> <i>ra</i> , 'saffron.')
„ कुण्ड <i>kunḍa</i> , कुट <i>kuta</i> , 'pot,' (Gr. <i>kvaθos</i> , a cup for drawing wine)	„ कमण्डलु <i>kamaṇḍalu</i> , 'a small vessel.'
Sans. वृष <i>vṛṣa</i>	„ महिष <i>mahiṣa</i> , 'a buffalo.'
Hind. भैस् <i>bhais</i>	
„ बैल् <i>bail</i>	
Hind. चार <i>cār</i>	Pers. { چار <i>cahārasin</i> , شنبه <i>cahārṣamba</i> , 'the fourth day,' (i.e. Wednesday.)
Sans. चत्वार <i>catvār</i>	

This law will be illustrated in Vol. II, with reference to the Dravidian languages.

48. मधु *madhu* is modified as Lat. *vitis*, *vinum* and Gr. *οινη* and *οινος*, and मृदीका *mṛdvikā*, 'grapes,' wherein the vowel ऋ is an inorganic addition.<sup>1</sup> वन *vana*, Gr. Παν, 'god

<sup>1</sup> Vide दृश् *drś* and the rule given under it, p. 96.

of woods,' Πενελοπη, the wife of Ulysses, whom Jupiter, charmed in the form of a goat and became by her the father of Παν. The word Πενελοπη seems to be a corruption of Παν, 'wood,' and εριφος, 'a young goat' (Sans. वनोरभ्र *vanōrabhra*, 'wild goat.')

49. From मधु *madhu* we next proceed to मद् *mad*, मुद् *mud*, 'to rejoice,' मद् *mada*, 'joy,' 'intoxication,' पित्त *pitta*, 'bile' or 'madness,' वद् *vand*, 'praise,' 'to bow to,' मद् *mand*, 'to adore.' By the addition of the termination र *r* we get मद्र *madra*, 'happiness,' modified also as भद्र *bhadra*, and by that of the termination इका *ikā* to मद्र *madra*, मद्रिका *madrikā*, and at last मतल्लिका *matallikā*, 'the most excellent.' Compare पुत्र *putra*, 'son,' पुत्तल *puttala*, 'a puppet,' Gr. *κολοσσος*, 'statue,' पोतल्लिका *pōtalikā*, 'calf.' This last मतल्लिका *matallikā* is again modified as मचर्चिका *macarcikā* by the palatalization of त *t* and ल *ll* into च *c* and the addition of an inorganic र *r* to the beginning of the second च *c*. From भद्र *bhadra* may be derived Gr. *εσθλος* which, like the Sanskrit original, is not only used in the sense of good in general, but is also used of persons indicating bravery, stoutness and the like. The original form of the word seems to be *Feσλος* with an initial digamma, and without *θ* (as in Doric *εσλος*), which is inserted for euphony between *σ* and *λ*.

To this Sanskrit word भद्र *bhadra* I would trace the Gr. *αθλον*, 'the prize of contest,' generally a gift or reward. *Αθλον* is contracted from the Epic form *αεθλον* in which the vowel *ε* is owing to the elision of *σ* before *θ*; so that the original form seems to be *Fασθλον* with an initial digamma which must have been lost. It is very interesting to see the alliance of the Gr. *αθλος*, 'a contest between prize-

fighters' and the Sans. मल्ल *malla*, which also is traceable to the same root भद्र *bhadra* and which means 'an athlete.'

50. To the same source I would trace Sans. मृद् *mṛd*, 'to be happy,' मंद *mand*, 'to praise,' 'to be happy,' भृद् *bhand* and भंद *bhand*, 'to be happy,' 'to rejoice,' मंदार *mandāra*, 'the celestial tree which is a source of happiness,' मंदर *mandara*, 'slow,' which quality is the result of *happiness*, and बृंद *brnda* and बृंदारक *brndāraka*, 'good,' 'beautiful.'

From मंद *mand* comes मृदु *mṛdu* which means 'soft,' physically or mentally. As happiness produces the softness of the mind, the word applied to the former was transferred to the latter. From mental softness the word extended its meaning to physical softness. By the change of *m* into *b*, *rd* into *ll*, and *r* into *l*, मृदु *mṛdu* becomes *Spadus* in Greek, *mollis* in Latin, and *milde* in Anglo-Saxon. The letter र *r* in मृदु *mṛdu* may perhaps be inorganic as in बृहस्पति *Brhaspati* (q.v.) and have disappeared in Lat. *mitis*, 'soft.' To the same source भद्र *bhadra* are traceable the comparative degrees, Lat. *melior* and Gr. *βελτιων*, in which latter λ answers to the *r* in Sans. भद्र *bhadra*, and the superlative *βελτιστος*. The Eng. *good* and Ang.-Sax. *god* and their comparative and superlative degrees exactly correspond to the Greek and Sanskrit, as shown in the following table :—

	POSITIVE.	COMPARATIVE.	SUPERLATIVE.
ENG.	good <sup>1</sup>	better	best.
A.-S.	god	bettera	betest, betst.
GR.	<i>αγαθος</i>	<i>βελτιων</i>	<i>βελτιστος</i> .
SANS.	साधु <i>sādhū</i> or हृद <i>brnda</i>	हृदीयस् <i>brndīyas</i> हृदिष्ठ <i>brndīṣṭha</i> .	

<sup>1</sup> Regarding साधु *sādhū*, *αγαθος* and A.-S. *god*, vide आकाश *ākāśa*.

The anusvāra in **वृन्द** *br̥nda* is non-radical ; and Pāṇini takes **वृन्दिष्ठ** *br̥ndiṣṭha* as the superlative degree of **वृन्दारक** *br̥ndāraka*.<sup>1</sup> We can therefore infer that the positive form **वृन्द** *br̥nda* is not used and in its stead is used the derivative adjective **वृन्दारक** *br̥ndāraka* = **वृन्द** *br̥nda* + **आरक** *āraka*, **वृन्द** *br̥nda*, 'excellence,' and **आर** *āra*, a suffix meaning 'having,' and **क** *ka*, an enclitical suffix.

51. From **दिवस्** *divas* may be derived the form **युवस्** *yuvas*, and from this, the Vedic **युवश्च** *yuvaśa*, 'youthful,' 'bright,' **युवन्** *yuvan*, 'young,' **युवाकु** *yuvāku*, 'bright,' 'hot,' and **यवानू** *yavāgū*, 'the hot water taken from boiled rice,' called also **उष्णिका** *uṣṇikā* in Sanskrit. Compare Gr. *Ιοκαστη*, 'the wife of Laïos,' which I have explained already (p. 51). The word **युवस्** *yuvas* occurs in the following passage:—

**याजरन्तायुवशाताकृषोतन.** Rig Veda, I. 161-7.

*Yājarantā yuvaśātā kṛṣṇōtana.*

'You have made those who were old young.'

**युवस्** *yuvas* is contracted into **यूस्** *yūs* and is applied to rice gruel, because it is hot, being taken from boiled rice. **यूस्** *yūs* is modified also as **यूषन्** *yūṣan* and **यूषम्** *yūṣam*, by the addition of **अन्** *an* and **अम्** *am*. **यूस्** *yūs* is a Vedic word.

**रसेवाएषपशूनां यद्युः.** Tait. Sam. VI. 3.

*Rasāvā eṣa paśūnām yadyūh.*

'Rice gruel is delicious to cattle.'

<sup>1</sup> **प्रियस्थिरस्फिरोरुबहुलगुरुवृद्धप्रदीर्घवृन्दारकानाम्प्र**  
*Priyasthīrasphirōrubahulaguruvṛddhatṛpradīrghabr̥ndārakāṇāmpṛ*  
**स्थस्फवरुबहिर्गर्विचवृद्धाचिवृन्दाः ॥** Pāṇini, VI. 4, 157.  
*sthasphavarubamhigarvarṣitrabṛvṛddhāchibṛndāh.*

The Vedic युवाक *yuvāku*, variously interpreted by Sāyana in his commentary of the Rig Veda, may be derived from युवस् *yuvās* by the change of स *s* into क *k* and taken to mean 'bright,' 'hot,' &c.

इसायुवाकवस्सुतानासत्यावृत्तबर्हिषः ।

*Dasrāyuvākavassutā nāsatyāvṛktabarhiṣah*

आयातंरुद्रवर्तनी ॥ Rig Veda, I. 3, 3.

*Āyātāmrudravartanī.*

'O truthful Aswins, whose ways are full of awe, bright or fresh (soma juice) has been distilled, come and occupy the trimmed darbha grass.'

यवागू *yuvāgū*, 'rice water,' is so called on account of its heat as it is taken from boiled rice.

52. I shall next proceed to the Sanskrit word युवन् *yuvan*, 'youthful,' 'young,' and the corresponding Lat. *juvenis* and Gr. ἴβη.<sup>1</sup> While the Lat. *juvenis* is closely connected with युवन् *yuvan*, the Gr. ἴβη seems to be rather remote; for the connection of य *y* and ज *j* is very frequent and apparent, but that of य *y* and ह *h* is not easily seen. In many Greek words, however, the change of य *y* into ह *h* has taken place; and the word under discussion is one of them.

Compare the following :—

Sans. याज्य *yājya*, 'belonging Gr. *ályos*.

to sacrifice' (यज् *yaj*),

„ याग *yāga*, 'sacrifice,' „ *ályos*, 'any matter of religious awe.'

<sup>1</sup> We may perhaps trace to युवस् *yuvās*, Lat. *jubar*, 'light,' *juba*, 'mane of a horse,' *puber*, 'adult,' in which last the य *y* of युवस् *yuvās* is changed into *p*.

Sans. यकृत् <i>yakṛt</i>	Gr. ἥπαρ ( <i>ros</i> ), liver, Lat. <i>jecur.</i>
„ यद् <i>yad.</i>	„ ὅς, relative pronoun 'what.'
„ या <i>yā</i>	„ ἰημι, 'to go.'
„ युध्वन् <i>yudhvan</i>	„ ἰσμυι, 'battle.'
(Vide Bopp's Comp. Gram. Vol. II, p. 538.)	
„ युवस् <i>yuvās</i>	Gr. ἰσπρς, 'strong.'

In ἥβος which means 'young,' the final न् *n* of युवन् *yuvan* is elided. The feminine form of युवन् *yuvan*, viz. युवति *yuvati*, is allied to *Ias* (*dos*), the feminine form of *Iov* (q. v.), 'an Ionian woman,' just as युवन् *yuvan* to *Iov*. युवस् *yuvās* being changed into युवर् *yubar* by the insertion of र *r* for स *s*, and ब *b* for व *v*, and shortened into युव्र *yubra*, may produce the Gr. ἰσπρς, 'strong,' ἄσπρς, 'delicate,' 'soft,' οβρια, 'strength,' and οβριμος, 'strong,' in the last two of which the aspirate sound of the initial vowel of ἰσπρς is lost.

As चाया *chāyā*, that is 'light,' is the wife of the sun अहस्कर *ahaskara* (अहस् *ahas*, 'day,' and कर *kara*, 'producing'), so Ἡβη is the wife of Ἡρακλες, which word seems to be a contraction of अहस्कर *ahaskara* by the elision of the initial अ *a* and the change of स *s* into र *r* as in अहर्षति *aharpati*, 'lord of the day,' i. e., 'the sun.' (Vide p. 61.)

53. From ἰσπρς we get βριαρς, 'strong,' and also the proper name βριαρεως, applied to a hundred-handed giant, who is called so by the gods, and Ægion by men, and who assisted Zeus. He was the son-in-law of Poseidon and with his brothers Cottus and Gyas assisted the gods against

the Titans. Allied to *ὑβρις* we have in Sanskrit कुमार *kumāra*, 'young' and 'soft,' as in सुकुमार *sukumāra*. It is applied to 'the war god,' who was a son of Śiva and assisted the gods and whose name गुह *Guha* resembles that of *Gyas* (Γυγης), brother of *βριαπεως*. In वीरभद्र *Virabhadra*, a son of Śiva who destroyed the sacrifice of Dakṣa who had insulted Śiva, we see a likeness to *βριαπεως*, and also in कार्तवीर्य *Kārtavīrya*, 'a prince of the Hehayas,' who had a thousand arms and was defeated by Paraśurāma. The names *βριαπεως* and *Kortus* seem to have been coined from कार्तवीर्य *Kārtavīrya*, *Kortus* answering to कार्त *kārtā* and *βριαπεως* to वीर्य *vīrya*. कोमल *kōmala*, 'soft,' is a modification of कुमार *kumāra*. *βρι* is a contraction of *ὑβρις* and is used as a prefix to intensify the meaning of an adjective.

*ἰβρις* may be modified as वीर *vīra* and ἰσως and Lat. *vis*, pl. *vires*, and Gr. *ις* (*ivos*), 'strength.'

54. The word यवन *yavana* is, I think, converted into *Ιω* (*v*) and was applied to Ion, the son of Xuthus (Apollo) and Creusa, who is said to be the ancestor of the Ionian race. But it is applied to many nations in Sanskrit such as Persians, Greeks, Jews, Arabians, Mahomedans and so on. The Heb. יָוָן, 'Javan,' was the name of the fourth son of Japheth, whom the Jews supposed to have been the ancestor of all the Grecians or Ionians. The word is, therefore, applied in the Old Testament to Greece or an inhabitant of Greece. There can be no doubt about the identity of this word Javan, יָפֶֿֿֿֿֿֿֿֿֿ, 'Japheth,' the Gr. *Ιαννης*, *Ιω* (*v*) and Sans. यवन *yavana* and युवन् *yuvan*. (Vide Rajendra Lal Mitra's Article on the 'Yavanas' in the *Bengal Asiatic Society's Journal*, 1874, No. III, pp. 246-279; and Dr. Oppert's *Śukra*, pp. ix-xi.)



The following Hebrew words, notwithstanding the different origins assigned to them, must be connected, I think, with the Sanskrit and Greek words mentioned here :—  
 יהושׁע, 'Jehoshua,' the son of Nun; יהודה, 'Judah,' the fourth son of Jacob; יהודה, 'the land of Judah.' The Sans. युवस् *yuvas* modified as यहुस *yahusa* by the change of व *v* into ह *h*, and यहुद *yahuda* by the change of स *s* into द *d*, has produced all the Hebrew words mentioned here. (Vide Semitic Analogy.)

55. Allied to the Gr. *Io* and Sans. यवन *yavana* is Gr. *Ιαπηνος*, son of Coelus or Titan by Terra or, according to Hesiod, son of *Oupavos* and *Gata*, who married Asia, or according to others, Clymene, who bore to him Atlas, Menœtius, Prometheus and Epimetheus. The Heb. יָפֶֿתֿ, 'Japheth,' is identical with the Gr. *Ιαπηνος* and Sans. यवन *yavana*. Japheth was the eldest son of Noah whose descendants occupy the whole of Europe. To यवन *yavana* is to be traced the Egyp. *Hawwanu* mentioned in Mr. Gladstone's Hom. Syn., p. 267. From the Sans. युवन् *yuvan* must be derived the Pers. جوان *javān*, 'youth,' and then, 'a servant,' for a youth is engaged as a servant,—a change of meaning, which has taken place in the Eng. *boy*, and Hind. چکرہ *chōkrā*, which was borrowed either from Kan. ಕಿಕ್ಕನ *cikkana* or Sans. किशोर *kiśōra*, 'a boy,' and is now applied by the European residents of Madras to 'a (young) servant.'

56. The Sans. युवस् *yuvas* may next be changed into युसव *yusava*, युहव *yuhava* and at last into यहुव *yahva*, meaning 'bright,' 'young,' 'great,' 'mighty,' &c., but the radical meaning is, I think, 'bright,' to which the other meanings may be traced; e.g.

आभंदमानेउपाकेनक्रोवासासुपे'शसा

*Abhandamānē upākē naktōṣāsū supēśasā*

यङ्गीरृतस्यमातरासीदंतांबर्हिरासुमत्॥

*Yahvīrītasya mātārāsīdantām barhīrāsumat.*—Rig Veda, I. 142, 7.

‘Let Night and Dawn who are cheerful, living together, of beautiful forms, bright or young, and are mothers of sacrifice, approach (sit on) the darbha grass happily.’

यङ्ग *yahva* is contracted into यङ्ग *yahu* and means ‘young,’ hence ‘a son,’ as in the Rig Veda, I. 26, 10.

यनोधास्वहसोयहो *Canōdhāssahasōyahō.*

‘O son of strength, give us food.’

The word यङ्गत् *yahvat* is a modification of यङ्ग *yahva*, and means ‘bright,’ as in the following passage:—

सुपर्णाएतआसतेमध्यआरोधनेदिवः

*Suparnā ēta āsatē madhya ārōdhanēdivah*

तेसेधन्तिपथोदृक्तरंतंयङ्गतीरपोविस्मि'अखरोदसी ॥

*Tēsēdhanti pathōvṛkham tarantam yahvatīrapō vittam mē asya rōdasi.*

Rig Veda, I. 105, 11.

‘These rays of the sun spread in the all-covering centre of the sky. They prevent the wolf from crossing the bright waters on its way. O, Heaven and Earth, hear this praise of mine.’

To this root यङ्ग *yahva* I would trace some Semitic words which, like those already referred to, are derived in a peculiar and different way by the lexicographers and scholars; such as,

Heb. יַעֲקֹב, ‘Jacob,’ (Arab. يعقوب *Yākūb*), the younger twin son of Isaac;

„ יוֹסֵף, ‘Joseph,’ (Arab. يوسف *Yūsuf*), the first-born son of Rachel;

Heb. יהו, 'Jehu,' a prophet and the son of Hanani, and also the grandson of Jehoshaphat ;

„ ירוש, 'Jebus,' the ancient name of Jerusalem, so called after the third son of Canaan ;

„ יהוה, 'Jehovah,' God ;

and many other words which will be mentioned in the Semitic Analogy.

57. From स्व *sva*, 'possession,' we can derive सम् *sava*, which form is changed into सह *saha*, 'with,' and सख *sakha*, 'a friend,' by inserting *kh* for *v* as in सुख *sukha*, स्वस् *svas*, 'happiness.' सह *saha* is contracted into स *sa*. Again, the form स्व *sava* is changed into सम *sama*, 'equal,' 'with,' and सिम *sima*, 'all,' of which अमा *amā*, 'near,' Gr. ἄμα, 'at the same time,' and ὅμος, 'common,' are modifications. Sans. समान *samāna*, 'equal,' 'common,' Gr. ὅμαλος, 'of equal degree,' and Lat. *similis* are formed from the above words. सम *sama* is contracted into सम् *sam*, and Gr. συν and ξυν, the latter being used in Old Attic for the later and more common συν. The corresponding form in Latin is *con* in which the initial *c* stands for the initial स *s* of Sans.

सम् *sam*.<sup>1</sup> सम *sama* is also modified as समया *samayā*, 'near,' and सह *saha*, as साकम् *sākam*, सत्रा *satrā* and सार्धम् *sārdham*, 'with.' सत्रा *satrā* is formed from स *sa* which is a shortened form of सह *saha* as shown above, by the addition of the terminations तर *tara* and आ *ā*; and सार्धम् *sārdham*, from सह *saha* by the addition of तर *tara* and

<sup>1</sup> Vide p. 114.

सम् *am*. The last word सार्धम् *sārdham* is, however, formed somewhat peculiarly ; for, the final aspirate of सह *saha* is blended with the following त *t* which letter is thereby changed into ध *dh* as in सार्धम् *sādhryāñc* = सह *saha* + तर् *tar* + च् *añc*, as I have already shown (vide p. 18) ; and the *r* of तर् *tar* is transposed to the middle of the word.

सह *saha* is modified also as सघ *sagha* and सच *saca* by the change of ह *h* into घ *gh* and च *c*, and from the latter of them is derived सचिव *saciva*, 'a minister.' सच *saca* produces the roots सच् *sac*, 'to join,' सज् *saj*, 'to come in contact,' and लग् *lag*, 'to adhere,' Gr. *θιγγανω*, Lat. *tango*, 'to touch,' and Gr. *τυγχανω*, 'to happen.'

Corresponding to Sans. स *sa*, 'with,' 'equal,' which I have shown above to be a contraction of सह *saha*, we have in Greek *â* which is changed into *a* by the loss of the aspirate sound. Like its original स *s*, *a* is used as the first member of a compound as in *αδελφος*, Sans. सगर्भम् *sagarbhas*, in which *a* and स *s* mean 'the same' and *δελφος* and गर्भम् *garbhas*, 'womb.' *Αδελφος* and सगर्भम् *sagarbhas* mean, therefore, 'of the same womb,' that is, brother and sister ; similarly, Gr. *αταλαντων*, Sans. सधरित्रम् *sadharitram*, 'of equal scales.' (Compare *αλγκιος*, p. 98.)

The Sans. सम् *sam* and Gr. *ξυν* have respectively produced सेन *sēna* and *ξενος*, the radical sense of which is 'who is with another,' that is, 'attendant.' In Sanskrit सेना *sēnā* means 'an army,' and *ξενος* in Greek, 'a guest' or 'the

friend with whom one is bound in a treaty of hospitality.' The Gr. *εὐξενος* or *εὐξείνος* meaning 'kind to strangers,' and 'hospitable,' corresponds exactly to the Sans. *सुषेण* *suṣeṇa* which may mean either 'very hospitable' or 'having good attendants.'

58. From *द्यौस्* *dyaus* we can derive *ग्यौस्* *gyaus* and *गौस्* *gaus* by the elision of *य* *y*, and the word has several meanings, such as 'heaven,' 'earth,' 'rays,' 'eye,' 'sight,' 'horizon,' 'arrow,' &c.,<sup>1</sup> which are all traceable to the original meaning of the word 'heaven or light.' *गौस्* *gaus* becomes 'βους' in Greek by the change of *ग* *g* into *β*. This change occurs frequently in Greek as shown in the following examples :—

Sans. गुरु <i>guru</i> ,	Gr. βαρυς, 'heavy' (Lat. <i>gravis</i> , 'heavy')
,, गल् <i>gal</i> , 'to fall,'	,, βαλλω, 'to throw.'
,, गम् <i>gam</i> ,	,, βαίνω, 'to go.'
,, गाथ <i>gātha</i> , 'bottom,'	,, βαθύς, 'deep.'
,, ग्राम् <i>grābh</i> (the causal form of Vedic गृभ् <i>grbh</i> , 'to take')	,, βλάπτω, 'to stop,' 'to arrest,' 'to catch.'
,, गा <i>gā</i> ,	,, βοάω, 'to cry.'

<sup>1</sup> गौःखर्गेष्वलीवर्दे रश्मौचकुलिशेषुमान् ।

*Gauhsvargēcavaliwardēraśmaucakuliśēpumān*,

ह्रीसौरभेयीदृग्वाणदिम्बाम्भूषसुभृच्चिच ।

*Strīsaurabhēyīdṛgbāṇadīgvaṅbhūṣasubhūmnicā*,

गायत्र्यामपिगम्भीरैजगत्याम्बुवनेजने ॥ *Mēdini*.

*Gāyatryāmapigambhīrējagatyāmbhuvanējanē*.

Sans. गर्भ <i>garbha</i> , ( <i>κορπος</i> ),	Gr. <i>βρεφος</i> , 'the child unborn.'
„ गोळ <i>gōla</i> ,	„ <i>βωλος</i> , 'a ball.'
„ गुहा <i>guhā</i> , 'a cave,'	„ <i>βυθος</i> , 'deep sea,' 'depth.'
„ गर्जितम् <i>garjitam</i> , 'roaring,'	„ <i>βαρβιτον</i> , 'a musical instrument of many strings.'
„ गव <i>gava</i> , as in अजगव <i>ajagava</i> , 'Siva's bow.'	„ <i>βιος</i> , 'a bow.'

Compare the corresponding change of क *k* into π in Greek, which will be illustrated lower down.

गौस् *gaus*, 'light,' is contracted into गुस् *gus* and modified as गुष् *gus* by the change of स् *s* into ष *ṣ* as in द्युस् *dyus*, त्विष् *twiṣ*, and then शुष् *śuṣ*,<sup>1</sup> 'to burn,' by the change of ग *g* into श *ś*. From शुष् *śuṣ* we can derive उष् *us*, 'to burn,' by the elision of the initial consonant, and सूच् *sūc*,<sup>2</sup> 'to point out,' by changing श *ś* into स *s* and lengthening the vowel *u* as in दूष् *dūṣ*, 'to abuse,' the causal of दुष् *duṣ*, 'to become corrupt,' and as in गूह् *gūh*, 'to cause to enter,' the causal of गुह् *guh*, 'to enter.'

From शुष् *śuṣ* comes रुच् *ruc*, 'to shine,' and this is modified as लोक् *lōk*, लोष् *lōc*, 'to see,' Gr. *δοκεω*, 'to seem,' Lat. *luceo*, 'to shine.'

59. रुच् *ruc*,<sup>3</sup> 'to see,' assumes the form of दृश् *drś* (Gr.

<sup>1</sup> Tam. *சூடு* *śūḍu*, Kan. *ಸುಡು* *suḍu*.

<sup>2</sup> Tel. *சூடு* *śūḍu*, Kan. *ಸೂಡು* *nōḍu*, Tam. *சுபைடு* *nōkkū*, *சூடு* *śūḍu*.

<sup>3</sup> I would trace रोदस् *rōdas* and रोदसी *rōdasī*, 'Heaven and Earth,' to द्युस् *dyus* through the form रुस् *rus* which with the final

δερκομαι) by a peculiar change of र r into दृ dr wherein दृ d may stand for र as in गुद guḍa, Gr. γυρος,<sup>1</sup> and र r may be a strengthening letter, or vice versâ.

I give here below some instances to illustrate the law according to which the vowel र r is added to strengthen a consonant.

Sans. कसर kṣara, originally किर kīra as mentioned

by Pāṇini in sutra IV. 4, 53, wherein किर kīra is mentioned as a saleable article and appears to be allied to Lat. cicer, 'chick-pea.'

„ यकृत् yakṛt, यकन् yakan in the oblique cases, Gr.

ῥπαρ (ῥπατος) wherein π answers to the क k of यकृत् yakṛt. The र r of यकृत् yakṛt is, therefore, non-radical.

„ शकृत् śakṛt, शकन् śakan in the oblique cases, Gr. σκαρ (σκατος), 'dung.'

„ असृक् asṛk, असन् asan in the oblique cases, Gr. αῖμα (ατος), Lat. sanguis in which the initial अ a of असन् asan is elided.

„ सृगाल ṣṛgāla, छगल chagala, 'a goat,' Eng. jackal, Gr. σαρυπος, 'a shaggy goat skin,' σαρυπος, a

स् s changed into द d and by the addition of the termination अस् as becomes रुदस् rudas, and, when u is gunated, assumes the form रोदस् rōdas. रोदस् rōdas is modified further as रोदसी rōdasī by the addition of the feminine suffix ई ī. The words are always used in the dual number and mean 'Heaven and Earth.' To the same root द्युस् dyus is traceable Pers. روز, 'a day.'

<sup>1</sup> Vide p. 51.

monster 'satyr' partly a goat and partly a man,  
 Sans. किशोर *kiśora*, 'a foal'; नक्र *nakra*, 'alligator,' नकुल *nakula*, 'mongoose;' and other allied words, which will be mentioned in the *Siras* Group, and in which the first consonant is not strengthened by र *r* as in the Sans. सर्गाल *ergāla*.

Sans. समर *smara*, 'a quadruped like the deer,' चमर *camara*, चमूर *camūru*, 'bos grunniens,' कमल *kamala*, 'a kind of deer.'

„ सकन् *srkvan*, 'the corner of the lips,' Gr. *σινγων*, (*σινγων*), 'jaw,' 'jaw-bone.'

„ मदिका *mṛdvikā*, मदीका *mṛdvikā*, 'grapes,' मधु *madhu*, Lat. *vitis*, 'vine.'

„ मृदु *mṛdu*, 'soft,' मद् *mad*, 'to rejoice.'

„ बृहस्पति *Brhaspati*, 'the priest of the Deities,'  
 वियस्पति *Viyaspati* (q.v.).

„ कुंडुणाची *kundṛṇācī*,<sup>1</sup> 'going crookedly,' कुटिल *kutīla*, 'crooked.'

The insertion of the vowel र *r* in the above instances comes under a general law that र *r* is used to strengthen a consonant. It is treated as a vowel owing to the metrical necessity of considering as short the quantity of a vowel which is followed by two consonants one of which is र *r*. Thus, if, in सुधृत् *sudhrat* (सुधृत् *sudhrt*), Gr. *evθpaτ*, the vowel सु *su* is to be considered short, we ought to treat ध्र

<sup>1</sup> पतातिकुंडुणाद्यादूरं वातो वनादधि. Rig Veda, I. 29, 6.

*Patātikundṛṇācyādūramvātōvanādadhi.*

'The wind blows far from the grove in a crooked way.'



*dhra* as a single and not a compound consonant ; and this can be done only by treating the र *r* as a vowel. At first the necessity for such treatment of the letter was very limited, and in consequence the grammarians very easily inserted for र *r* in such cases the letter र् *r̥* which is only a modification of र *r* both in sound and character ; but, when subsequently the use of the compound consonants as क *ka*, प्र *pra* after short vowels was very frequent, there arose a metrical rule to the effect that short vowels followed by compound consonants of which र *r* is the second may optionally be treated as short.

दृश् *drś*, coming at the end of compounds with pronouns, assumes the force of 'like' or 'similar.' Thus in Sanskrit, यादृश् *yādrś*, तादृश् *tādrś* and कीदृश् *kīdrś* mean respectively, 'like what,' 'like that,' and 'like what' (interrog.), the word conveying the idea of 'like,' viz. इव *iva*, being really understood. The above Sanskrit words are modified as ῥλικος, τηλικος (Doric τालικος), and πηλικος in Greek, and *qualis*,<sup>1</sup> *talis* and *qualis* in Latin. In Eng. 'which' and 'such' we can trace the corresponding Anglo-Saxon forms,

<sup>1</sup> Latin has the same form *qua* corresponding to Sans. क *ka*, 'who' (interrog.), and य *y*, 'who' (rel.), which seems to be older than the latter क *ka* and य *y* and the allied Greek words. Hence *qualis* is interrogative, and also relative as the correlative to *talis*. (Vide p. 134).

The stems *tali* and *quali* are formed exactly alike, and consist of *ta* (Sans. त *ta* and स *sa*) and *li* and *qua* (Sans. य *ya* and क *ka*) and *li*. The latter part of the compounds, *li*, is a contraction of Sans. दृश् *drś* which is changed in Prakrit into रिस *riśa* as in सरिस *sarisa* for Sans. सदृश् *sadrśa*, 'equal,' ईरिस *īriśa* for Sans. ईदृश् *īdrśa*, and into रिख *rikha* and रख *rakha* as in Pali सरिखो *sarikhō* and Gaud. सारख *sāraḥka*. Just as Sans. दृश् *drś* is modified as रिस *riśa*

*hwaleik* and *swaleik*. The English word *like* and the Ang.-Sax. *lic*, 'similar,' are taken from the compound words such as *hwa-leik*, *swa-leik*, *god-leik* and the like, where *leik* is a corruption of the root 'look.' They must, therefore, mean radically 'to look,' 'to be seen,' as the verb 'look' itself does not convey and can not convey the idea of 'similar' originally. But coming as the latter parts of the compounds, such as *hwaleik* and *swaleik*, they mean there only 'to be seen,' the word conveying the idea of similarity being omitted; but the idea of similarity was, in course of time, attached to the word *leik* itself. The word then came to mean 'to look similarly' and at last 'to be similar,' the idea of 'being seen' having been omitted altogether. The word *like*, 'similar,' is, therefore, to be connected with the latter part of the above compounds and has no direct connection with the word '*like*' which means 'to desire' and which I derive from Sans. तृष् *tr̥ṣ*, 'thirst,' corresponding to Lat. *lis* (*tis*), 'strife,' and the old form of the word *stilis*.

The Gr. *αλγικιος*, meaning 'similar,' 'resembling,' is to be connected with the Sans. सदृश् *sadr̥ś*, सः<sup>1</sup> (सह *saha*), 'equal,' and दृश् *dr̥ś*, 'to look,' and means 'looking like.' The difference between this word and *τηλικος*, *πηλικος*, &c., is simply the insertion of a nasal before *κ* in *αλγικιος*<sup>2</sup> and the termination *ιος*, that is, Sans. य *y*, which are not found in *τηλικος* and *πηλικος*, &c.

Πεῖδ' ἐπὶ κόλπον ἔχουσ' ἀταλόφρονα νήπιον αὐτῶς  
'Εκτοριδην ἀγαπητὸν ἀλγικιον ἀστέρι καλῶ.

Il. vi. 400, 401.

and then is contracted into रि *ri* in the Dravidian Vernaculars as in Tel. *sari*, and Tam. *sari*, 'equal,' so is it modified as *λικα* in Greek and *li* in Latin.

<sup>1</sup> Vide p. 92.

<sup>2</sup> The *γ* in *αλγικιος* is sounded like Sans. कृ *ñ*.

‘Carrying in her bosom the only child of Hector lovely, tender-minded, very young and resembling a beautiful star.’

In this passage *αλγικιον αστερι καλω* is exactly equal to Sans. *सदृशंतारायाः कलायाः (चारीः) sadṛśāntārāyāḥ kalāyāḥ (cārōḥ)*, *αλγικιον* and *सदृशम् sadṛśam* governing similar cases. ‘*Ηλικ*, in the sense of ‘equal age,’ may be a modification of *सदृश् sadṛś*, *ή* standing for *स s* and *λικ* for *दृश् drś*.

From *दृश् drś* may be derived the modified forms *तर्क् tark*, ‘to conjecture,’ and *चर्च् carc*, ‘to discuss.’

60. From *श्वस् śvas* may be derived Gr. *σπαιρω, ασπαιρω*, ‘to pant,’ Lat. *spero*, and Gr. *ελπω*, ‘to hope,’ *ελπις* (*ιδος*), and Lat. *spes*, ‘hope.’ This last word (pl. *speres*) originally ended in *r*, but, losing the final *r* in some cases, it is declined partly as a vowel stem. Perhaps Gr. *οφειλλω*, ‘to help,’ ‘to be obliged,’ *οφειλω*, ‘to be indebted,’ and their derivatives, (Eng. *help*, Ang.-Sax. *helpan*, Goth. *hilpan*, Ice. *hialpa*, and Germ. *helfen*), may be traced to the Gr. *ελπις*. If so, the aspirate sound of the initial vowels in the above Teutonic words must be non-radical. The Ang.-Sax. *ulph*, ‘help,’ also, is very closely allied to the Gr. *οφειλλω*.

61. *खर् svar* is modified as *रहृ svr*, ‘to heat’ or ‘to sound,’ *ज्वर् jvar*, ‘to be hot,’ by inserting *ज j* for *स s*, and *ज्वल् jval*, ‘to burn,’ by inserting *ख l* for *र r*. The word *खस् svas* may give us, also, *तपस् tapas*, ‘heat,’ ‘penitence,’ through the forms *सवस् savas* and *तवस् tavas*. From this *तपस् tapas* we have the verb *तप् tap* (*tepio*), ‘to be warm,’ ‘to be hot’ and ‘to make penance.’ *तपस् tapas* is changed

into तस्य *taspa*, by the transfer of the final स *s* between त *t* and प *p* as in जल्य *jalp* from स्वर *svar*, 'to sound,' सर्व *sarva* from स्वर *svar*, 'happiness,'<sup>1</sup> and θαλασ by the change of *s* into *l*. As स्वर *svar* means 'heaven,' 'the region of wind,' it passes to the meaning of 'sound,' and in this meaning it is modified as जल्य *jalp*, and assumes the form of σάλπ in Greek and produces the verb σάλπικε (Sans. जल्यया मि *jalpayāmi*), from which is derived the noun σάλπιγξ (*salpigx*), 'a war trumpet.' The Sans. शब्द *śabda* and Gr. ψηφος, 'sound,' are modifications of जल्य *jalp*. स्वर *svar* (स्व *svr*), 'to sound,' is changed into स्वन *svan*, ध्वन् *dhvan*, Lat. *sono* (*tono*, स्तन् *stan*, 'to thunder'), Sans. वन् *van*, (वाणी *vāṇi*, Gr. φωνη), पन् *pan*, पण *pan*, फण *phan*, भण *bhan*, पठ *paṭh*, वद् *vad*, and वच् *vac*, 'to speak.'

62. दिवस् *divas* is shortened into दिव् *div* and means 'to shine,' 'to rejoice,' and, by substituting ज *j* for द *d* and by lengthening the vowel इ *i*, we have जीव् *jīv*, 'to live,' Gr. βιω, ζω, and Lat. *vivo*. दिव् *div* gives us दीप् *dīp* by the change of व *v* into प *p* and the lengthening of the vowel इ *i*. दीप् *dīp* is modified as Gr. λαμπω, 'to shine,' and Lat. *limpo*, the obsolete root of *limpidus*, by the change of *d* into *l*.<sup>2</sup>

<sup>1</sup> Vide p. 15.

<sup>2</sup> Compare the following words:—

Sans. द्वार *dvāra*, 'gate,' Gr. लाυρα, 'an alley,' (*q.v.*)

„ द्यौस् *dyaus*, 'Heaven,' „ Λαιος, 'a king of Thebes,' (*q.v.*)

जीव् *jīv*, 'to live,' produces the word जेम *jēm*, चम् *cam*, जम् *jam*, 'to eat,' तीव् *tīv*, दृप् *drp*, 'to be fat,' Gr. *λιπας*, 'fat,' and Sans. दृप् *drp*, 'to be satisfied.' The Gr. *δαπτω*, 'to devour,' is nearer to दीव् *dīv* than to जीव् *jīv*. The Gr. *δειπνον*,<sup>1</sup> 'meal or meal-time,' is a contraction of जेमनम् *jēmanam*, 'eating,' or तेवनम् *tēvanam*, 'pastime,' to which Gr. *δαπανος*, 'extravagant,' *δαπανη*, 'expenditure,' Lat. *daps*, 'a stately feast,' and Gr. *δαις* (*τος*), 'a meal,' are allied. Gr. *Δαις* is a contraction of *δαπετος* or *δαπτος*.

In the Greek *ειλαπανη*, 'a banquet given by a single host,' opposed to *ερανος*, the vowels *ει* are added to the beginning for euphony as *η* in *ηλιβατος* and *Ο* in *Ολυμπος*.

63. I have already shown how शुभ् *śubh*, 'to shine,' is derived from स्वर *svar*, 'heaven,' (p. 13); and I may now proceed from शुभ् *śubh* to स्तुभ् *stubh*, 'to praise,' by the change of स् *ś* into स्त *st*.<sup>2</sup> From स्तुभ् *stubh* is derived

Sans. दृषद् *dr̥ṣad*,

Gr. *λιθος*, 'stone'.

„ देवनम् *dēvanam*, 'to be pleased'

„ *ειλαπανη*, 'feast,' 'banquet,' (q.v.)

„ जेमनम् *jēmanam*, 'to eat'

Gr. *Οδυσσευς*,

Lat. *Ulyxēs* or *Ulysses* (q.v.)

Sans. दहन *dahana*,

Gr. *लग्नυς*, 'smoke mixed with flame.'

„ दर्प *darpa*, 'pride,'

{ „ *λιπας*, 'fat'

{ „ *λιπος*, 'grease'

„ हृद्य *hr̥dyā*,

„ *ιλαος*, 'propitious,' 'gracious.'

<sup>1</sup> Compare Mod. Tam. *சாப்பாடு* *śāppāḍu*, Arab. *ضيافة* *ziāphat*, 'a feast, banquet,' *ضيف* *zāif*, 'a guest,' *دعا* *daʿā* and *دعوت* *daʿuat*, 'invitation,'

<sup>2</sup> Vide p. 28, Note 3.

स्तुप् *stup*, 'eulogist,' and the word occurs in the Rig Veda and is mentioned by Yaska among the synonyms of स्तोता *stōtā*, 'eulogist ;' as,

अभ्यनूयतस्तुभः *Abhyanūṣatastubhah*,

'The eulogists praised.' Rig Veda, IX. 68, 8.

The corresponding Greek word  $\theta\omega\psi$  has degenerated in its meaning and is applied to 'a flatterer.' The word स्तोभ *stōbha*, which is a verbal noun from स्तुभ् *stubh*, 'to praise,' and means 'praise,' is modified as स्तोम *stōma*,<sup>1</sup> 'a hymn,' 'sacrifice' and 'multitude,' by the change of भ *bh* into म *m*. As शुभ् *śubh*, 'good,' is contracted into सु *su*,<sup>2</sup> meaning 'good,' so is स्तुभ् *stubh* contracted into स्तु *stu*, 'to praise,' Gr.  $\theta\upsilon\omega$ , 'to offer sacrifice,' and is modified as दुव *duva* meaning 'to serve' as in दुवस्यति *duvasyati*. From स्तुभ् *stubh* we can derive लुभ् *lubh*, 'to covet' (Ang.-Sax. *lufian*, 'to love') ; or it may better be referred to वृक *vrka* of the Third Group.

64. I have hitherto spoken of the modifications undergone by the original word स्वस् *svas* and स्वर *svar* in their monosyllabic forms, and now I shall take up a dissyllabic form अस्वर् *asvar*, which leads us to आत्मन् *ātman*, a word from which स्वस् *svas* and स्वर *svar* seem to have

<sup>1</sup> As स्तोभ *stōbha*, changed into स्तोम *stōma*, originally means 'a praise' or 'collection of praises' and then comes to mean 'any collection ;' similarly perhaps स्तव *stava*, 'a praise' from स्तु *stu*, 'to praise,' becomes स्तवक *stavaka* by the addition of the termination क *ka* and means 'a praise' or 'a collection of praises' and from this meaning passes also to that of 'a collection as of flowers.'

<sup>2</sup> Vide p. 14.

been derived, and which I have taken as the representative of this Group. **आत्मन्** *ātman* means in Sanskrit 'life,' 'soul,' 'breath,' &c., of which meanings the most original seems to be 'breath' and 'life,' each of which is a concomitant of the other (p. 14). To it are traceable Gr. *avros*, 'self,' *ατμος*, *ατμς* (*ιδος*), 'vapour,' *ατμη*, 'smoke,' 'heat,' *ανεμος*, 'wind,' *ασθμα* (*τος*), 'hard-drawn breath,' Lat. *animus*, 'the spiritual principle of life in man,' *anima*, 'air, breeze, wind.' The Lat. *elementum* and Eng. *element* are to be derived from the Sans. **आत्मन्** *ātman*, the final *n* of which is doubled by the addition of **अम्** *am*, and then the second *n* is hardened into **त** *t* as in *mentes* = *men* + *es*, plural of the Latin word *mens*, 'intellect.' **आत्मन्** *ātman* is shortened into **त्मन्** *tman* which also means 'self.'

A similar elision has taken place in Gr. *ασθμα* and has given us *θυμος* which means 'the soul,' 'life,' 'breath,' and corresponds to Sans. **धूम** *dhūma* and **धूप** *dhūpa*, 'smoke.'

Sans. **बाष्प** *bāṣpa* which means 'vapour,' and Lat. *vapor*, 'steam,' 'exhalation,' and 'vapour,' are modifications of **आत्मन्** *ātman* which, being changed into **आस्म** *āsma* by the elision of the final *n* and **आस्प** *āspa* by the change of **म** *m* into **प** *p*, assumes the form of **बाष्प** *bāṣpa* by the initial addition of **ब** *b* (as **व** *v* in **वानर** *vānara*, 'monkey,' Gr. *αμηρ*, and Sans. **वासर** *vāsara*, **अतस** *atasa*, 'light'). **बाष्प** *bāṣpa* is changed into **वाप्स** *vāpsa* by the interchange of the consonants **स** *s* and **प** *p*, *vāpōsa* by the insertion of the vowel *o* between **प** *p* and **स** *s*, and *vapor* by the elision of the final vowel **अ** *a* and the change of *s* into *r*. The form

said to be used by Lucretus, viz., *vapos*, must be a contraction of *vapor*.<sup>1</sup> The connection of *avros*, 'self,' with आत्मन् *ātman*, seems to be a remote one, but if we consider a peculiar orthographical law prevailing in Sanskrit, Greek, Latin and other Aryan languages, the difference can be easily accounted for. The *m* of आत्मन् *ātman* being elided, the preceding vowel is lengthened, as in

Gr. *Kaivos* 'empty,' Sans. शून्य *śūnya* corresponding to the Epic form *κεveos* in which *eo* stands for *y* of the Sans. शून्य *śūnya*.

„ <i>Kaivos</i> , 'new,'	„ कन्या <i>kanyā</i> , <sup>2</sup> 'a young girl.'
„ <i>Tapaivos</i> ,	„ दमनीय <i>damanīya</i> , 'which can be subdued,' from दम् <i>dam</i> , 'to subdue.'
„ <i>Κενταυρος</i> , 'a Centaur'	„ गंधर्व <i>gandharva</i> , a kind of celestial beings (Vide the <i>Śīras</i> Group.)

<sup>1</sup> Compare Tam. *ஆவி* *āvi* which is derived from आत्मन् *ātman* by the elision of *t* and *n*, and the change of *m* into *v*, and does not contain the initial *v* which is found in *vapos*.

<sup>2</sup> कन्या *kanyā* is allied to Gr. *Evvea*, Sans. नवन् *navan*, 'nine,' in the former of which I see the full word for new and which is to be connected with Gr. *kaivos*. From Gr. *evveos* is derived by contraction *veos*, Sans. नव *nava*, 'new,' and also Sans. नवन् *navan* and Gr. *evvea*. It is very interesting to see that the Tam. *புது* *pudu*, Tel. *కొత్త* *kotta* (*kutu* + *a*), Kan. *ಪೊಸ* *posa* and *ಹೊಸ* *hosa*, meaning 'new,' are more closely allied to the Gr. *kaivos* and *evveos* than to the Sans. नव *nava*. All these words are traceable to the root कन् *kan*, Gr. *γανω*, 'to shine,' the idea of brightness producing that of freshness.



Answering to the contracted form of आत्मन् *ātman*, viz., त्मन् *tman*, we see in Latin *pse* and *pte*,<sup>1</sup> in which the initial *ā* of आत्मन् *ātman* is elided, and the letters त *t* and म *m* are transposed, so that त्म *tma* becomes म्त् *mta*, and त्त *pta*, by the change of म *m* into प *p* as in धूप *dhūpa*, धूम *dhūma*, 'smoke.' These contracted forms come at the end of the pronoun *is* and its casual forms; as, *ipse*, 'the very same' = *is* + *pse*, the final *s* of *is* being elided in the compound; *eapse*, *eampse*, and so on; the other form *pte* occurs in such words as *suopte*, *meopte*, *eopte*, *mepte*, *suumpte*, and the like.

The Sans. त्मन् *tman* is used similarly; e.g.,

इहत्वाभूर्याचरेदुपत्मन् दोषावस्तर्दीद्दिवांसमनुद्युन् ॥

IV. 4, 9.

*Ihatvābhūryācarēdupatman dōṣāvastardīdīvāṁsamānudyūn.*

'O God of fire, thee, shining day and night, man should much serve himself here every day.'

Here त्मन् *tman* is used as an adverb and corresponds to Lat. *pte* which is, however, united with the pronoun to which it refers in the sentence. Corresponding to the Sans. त्मन् *tman* and Lat. *pte*, I see in Greek *θν*,<sup>2</sup> *δε* and *δι*, which suffixed to pronouns give them greater force just as Sans. त्मन् *tman* and Lat. *pte* do. But they are added to nouns also without conveying any particular meaning, and in that case are merely enclitical. The two particles *δε* and

<sup>1</sup> In *ipse*, the final *us* used in the ancient form *ipseus* is shortened into *e* as in *iste* and *ille* which ought to be *istus* and *illus*. (Vide Zumpt's Latin Grammar, p. 107.)

<sup>2</sup> Compare the Dravidian *tān* which is a corruption of Sans. त्मन् *tman* and agrees with the Gr. *θν*, both in form and meaning.

६८, I think, are contractions of तमन् *tman*, modified as तन् *tan*, दन् *dan*<sup>1</sup> and then shortened into ६८ and ६९. The Eng. *soul*, Ang.-Sax. *sawol*, Icel. *sal*, Goth. *sawala* are connected with Sans. तमन् *tman* and आत्मन् *ātman*, the त *t* of which is changed into *s* in the above words. But in Eng. *self*, Ang.-Sax. *self*, *silf*, Germ. *selbe*, and Goth. *selba* there is a further modification, viz., the transfer of the final *l* which represents the final *n* of Sans. तमन् *tman* between the preceding *s* and *f* which answer to the त *t* and म *m* respectively. I may mention here also the Eng. *smell* which is derived from the Low Germ. *smellen*, 'to smoke.' I think that it is connected with the Teutonic words above mentioned and Sans. ध्मा *dhmā*, 'to blow,' Lat. *sibilus*, 'hissing,' and is traceable to Sans. तमन् *tman*.

65. I shall now take the contracted form of आत्मन् *ātman*, viz., तमन् *tman*, and show how this prolific small word gave rise to a great number of suffixes, the alliance of which to the original word is very clearly seen in Sanskrit, though not in the allied languages so clearly. The original meaning of the radical word is, as shown already, 'the soul,' 'spirit,' and, when the word is metamorphosed into various forms, each of which serves the purpose of a suffix, these derivatives pass from that original meaning to new meanings. Thus when तमन् *tman* and its derivatives are added to a noun, they refer to the condition or the state of a thing or a person, and so on; when added to an adjective, they convey the state of being so and so; and, when added to verbs, they indicate the act of doing an action, the object affected by the action, the place where

<sup>1</sup> Compare the suffix *don*, as in *formidon*, which I derive from the suffix तमन् *tman*. (Vide § 65).

the action takes place, and so on. तमन् *tman* is modified as त्वन् *tvān* by the change of म *m* into व *v* and also as त्वता *tvatā* and त्वनम् *tvanam*. त्वन् *tvān* corresponds to the Lat. *tion*, and त्वनम् *tvanam*, to the Gr. *συνή* and to the Lat. *tura*; and त्वन *tvana* is changed into त्वर *tvāra* by the insertion of र *r* for न *n*; e. g.,

Sans. कवित्वनम् *kavitvanam*, 'the state of a kavi or pandit.'

„ महित्वनम् *mahitvanam*, 'the state of being great.'

„ पुरुषत्वता *pūruṣatvatā*, 'the state of a man.'

„ इषित्वता *iṣitvatā*, 'the state of being excited.'

„ जित्वन् *jītvān*, 'one who has conquered.'

„ सत्वन् *satvān*<sup>1</sup> } 'that which exists.'  
Gr. *ετυμο*

Gr. *δικαιοσύνη*, 'righteousness.'

„ *ἱερόσυνη*, 'holiness.'

„ *τεκτοσύνη*, 'the art of a carpenter,' (*τεκτον* + *συνή*, in which the final *ν* of *τεκτον* is elided before the suffix *συνή*).

„ *ἡγεμόσυνος*, 'belonging to *ἡγέμενος*, a leader.'

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<sup>1</sup> सत्वन् *satvān*, properly असत्वन् *asatvān* from अस् *as* + अ *a* + त्वन् *tvān* in which अस् *as*, 'to be,' is the root, अ *a*, a connecting particle, त्वन् *tvān*, suffix, corresponds to Gr. *ἐτυμο*, from *εστυμο* = *εσ* + *ε* + *τυμο*, in which the suffix *τυμο* is a modification of the Sans. त्वन् *tvān*; *εστυμο* = *στυμο* by the elision of the initial vowel *ε* as in सत्वन् *satvān*, = *ἐτυμο* and *ετυμο* by the elision of the aspirate sound of the initial vowel. (Cf. सत्यस् *satyas*, *ετεις*.)

Gr. *yeiroovos*, 'belonging to a *yeiron*, a neighbour.'

Lat. *picura*, 'the art of painting.'

„ *cultura*, 'the art of cultivation.'

„ *mercatura*, 'trade,' 'commerce.'

„ *dictatura*, 'the office of a dictator.'

„ *censura*, 'the office of a censor.'

Sans. इत्वर *itvara* (Lat. *iturus*), 'going.'

„ गत्वर *gatvara*, 'going.'

Lat. *futurus* (Sans. भूत्वर *bhūtvā*), 'which will be or come.'

„ *maturus* (Sans. गत्वर *gatvara*, Gr. *βασιλος*), 'going,'  
'speedy,' 'early,' thence 'ripe.'

The suffixes त्वनम् *tvānam*, त्वन् *tvān*, and त्वना *tvānā* are used only in Vedas and are modified as त्वम् *tvām* in the classical Sanskrit. The Prakritic and the vernacular तनम् *tanam* is to be traced to the above त्वनम् *tvānam* and not to the classical त्वम् *tvām*. त्वन् *tvān* is simplified as तन् *tan* and is changed into तात् *tāt* and ताति *tāti* by the change of न *n* into त *t* as seen in Gr. *τατος*, a suffix of the superlative degree of adjectives, which is a corruption of the Sans. तन *tana* as will be shown hereafter. The Sans. तात् *tāt* corresponds to the Gr. *τατ* and Lat. *tat*.

The suffix त्वन् *tvān* is further developed into two syllables as *tuān* by the insertion of *u* between *t* and *v* and *tudon* by the change of *v* into *d* as in अण्डम् *aṇḍam* (अण्डम् *aṇḍam*), 'egg,' which is a modification of Lat. *ovum* and Gr. *ωον*, originally *ωφον*, by the change of *v* into *d* and the insertion of a nasal before *d*. Compare the Sanskrit suffix एयस् *ēyas*, Gr. *ἔως*, pp. 119-120.

त्वन् *tvān* is contracted into *don* in Latin by the elision

of व *v* and is suffixed to verbs as in *formidon* = *form* + *i* + *don*, the root *form* meaning 'to fear,' and connected with Sans. ब्रह्मन् *brahman*, 'great,' and Gr. μωρμα, 'a bugbear' (vide p. 83); *cupidon* = *cup* + *i* + *don*, from *cupio*, 'to desire.' It may, otherwise, be derived from वन् *van* by the change of *v* into *d* and may be ultimately traced to त्वन् *tvān* as is the case with *gon* (as in *robigon*, q. v.)

त्वन् *tvān* is shortened into वन् *van* and मन् *man* and added to verbs as धन्वन् *dhanvan*, 'a bow,' कर्मन् *karman*, 'an action.' वन् *van* is modified as वत् *vat* and उस् *us* and added to simple and reduplicated roots to form present and past participial adjectives, as, विद्वान् *vidvān*, 'knowing,' and श्रुश्रुवान् *śrūśruvān*, 'having heard.' Before the suffixes of the nominative dual and plural and accusative singular and dual, the suffix वन् *van* is modified as वस् *vann* by the doubling of the final न् *n*, वन्त् *vant* by the hardening of the second न् *n* into त् *t*, and at last वान्स् *vāns* by the change of त् *t* into स् *s* and the lengthening of the previous vowel *a*. In the accusative plural and in the singular of other cases वस् *vas* is changed into उस् *us*.

Thus we have,—

	SINGULAR.	DUAL.	PLURAL.
Nom.	विद्वान् <i>vidvān</i>	विदांसौ <i>vidvāmsau</i>	विदांसस् <i>vidvāmsas</i>
Accus.	विदांसम् <i>vidvāmsam</i>	विदांसौ <i>vidvāmsau</i>	विदुषस् <i>viduṣas</i>
Instr.	विदुषा <i>viduṣā</i>	विद्वद्भ्याम् <i>vidvadbhyām</i>	विद्वद्भिस् <i>vidvadbhis</i>

Compare the suffix ईयस् *īyas*, which will be presently mentioned.

It is the same suffix वन् *van*, I think, which, taking the augment ई *i*, becomes ईवन् *ivan* and then ईयन् *īyan* (cf. इयत् *iyat* for इवत् *ivat*, Gr. *ἰσος*), and also ईयस् *īyas*. The last change takes place in the accusative plural and the following cases ; and, in the nominative case and in the accusative singular and dual, ईयन् *īyan* follows the analogy of वन् *van* (as in विद्वन् *vidvan*). Thus we have,—

	SINGULAR.	DUAL.	PLURAL.
Nom.	गरीयान् <i>garīyān</i>	गरीयांसौ <i>garīyānsau</i>	गरीयांसस् <i>garīyānsas</i>
Accus.	गरीयांसम् <i>garīyānsam</i>	गरीयांसौ <i>garīyānsau</i>	गरीयसस् <i>garīyasas</i>

But in the corresponding Gr. *ῑων*, the final *n* of the original वन् *van* remains unchanged, and in the Lat. *ior* it is changed into *r*.

It is to be remarked here that in the suffixes अत् *at*, मत् *mat*, वत् *vat*, वस् *vas*, ईयस् *īyas* (radically अन् *an*, मन् *man*, वन् *van*, वन् *van*, and ईयन् *īyan*), Lat. *en* and *men*, and Gr. *av*, *ov* and *ev*, which are modified as अन्त *ant*, मन्त *mant*, वन्त *vant*, वंस *vams*, and ईयंस *īyams*, Lat. *ent* and *ment*, Gr. *avt*, *ovt* and *evt* respectively, the final न् *n* of the suffixes which appears in the form of त् *t* in some cases, is doubled, the second *n* is hardened into *t*, and in वस् *vas* and ईयस् *īyas*, the त् *t* is changed into स *s*, and the previous vowel is lengthened or the first *n* is elided. The same remark applies to the final न् *n* of मान् *māna* and आन *āna* which are modified as *bundus* and *endus* through the forms *bunnus* and *ennus*, in each of which *n* is doubled and the second *n* is changed into *d*.

Even the corresponding superlative suffix इष्ठ *iṣṭha* seems to be a modification of वस् *vas* which, taking the augment ई *i*, becomes ईवस् *ivas* and then ईयस् *iyas*, as shown before; and this ईयस् *iyas* is shortened into इस् *is* and, taking the termination *a*, becomes इस्स *issa* and, with the second स *s* hardened into त *t*, इस्त *ista*, Gr. *ιστος*. But in Sanskrit, इस्त *ista* is modified as इष्ठ *iṣṭha* by the aspiration of *t*. This suffix is found in Latin only in *magister*, *minister* and *sinister*. *Magister*, I think, is composed of *magnus* + *ist* + *ter*, corresponding to Sans. महत् *mahat* + इष्ठ *iṣṭha* + तर *tara* and Gr. *μεγαλ* + *ιστ* + *τεpos*, so that *magister* would be exactly equal to Sans. महिष्ठतर *mahiṣṭhātara* and Gr. *μεγιστοτεpos*. The word, then, must contain two suffixes, the first, *istus*, superlative, and the next, *ter*, comparative, as we have in Sans. श्रेष्ठ *śrēṣṭha*, 'excellent,' श्रेष्ठतर *śrēṣṭhātara*, 'more excellent,' श्रेष्ठतम *śrēṣṭhātama*, 'most excellent,' taking the superlative श्रेष्ठ *śrēṣṭha* itself as positive. Similarly, *minister* = *minus* + *ist* + *ter*. The word *sinister* may be distributed in the same way, e. g., *sinus* (crooked) + *ist* + *ter*, *sinus* being closely allied to Sans. जिह्म *jihma*, 'crooked,' the idea of the left side originating from the fact of a man's inability to do a work directly with the left hand, that is, his doing the work crookedly with the left hand.

I cannot, with some philologists, consider *magister* and *minister* as composed of the comparative degrees of *magnus*, that is, *major* and *minor*, in which case the words *magister* and *minister* must be spelt *majoster* and *minoster* respectively, even if we suppose that the final *r* of *major* and *minor* is changed into *s* before the suffix *ter*.

मन् *man* is added to the Ātmanēpadi roots to indicate the agency of a present action and is modified as मान् *māna* by the addition of अ *a*, and the lengthening of the preceding vowel अ *a*, but in Gr. *μενος* the vowel is not lengthened. In Latin, in addition to such modifications as *mnus*, *minus* and the like, which are found in Greek also, it has undergone a transformation which has thoroughly concealed its alliance to the original Sans. मन् *man* and baffled the investigation of the greatest scholars. The Sans. मानस् *mānas* becomes मन्नस् *mannas* by shortening the vowel आ *ā* of मा *mā* and doubling, in consequence, the following consonant न *n*; then बन्नस् *bannas* by the change of म *m* into ब *b*; and at last *bundus* by inserting द् *d* instead of the second न *n*, which process serves the purpose of strengthening the first.<sup>1</sup> This termination is added to roots of the first conjugation chiefly with the signification of the present participle and with a reference to the fulness of the action, as *cogitabundus* from *cogito*, *gratulabundus* from *gratulare*, *errabundus* from *errare*; and also to some roots of the third conjugation, as *fremebundus*, *gembundus*, *furibundus*, *nitibundus*. But when the root does not take any augments as अ *a*, य *y* and अय *aya* (that is शप् *śap* and श *śa*, श्यन् *śyan* and णिच् *ṇic* respectively), the initial म *m* of मान् *māna* is elided, as बिभ्राण् *bibhrāṇa*, 'bearing,' कूर्वाण् *kurvāṇa*, 'doing.' The termination आन *āna* is shortened into *andus*, *endus* and *undus* in Latin as मान् *māna* into *bundus*. Thus we have *amandus*, *scribendus*, *potiundus*, *audiundus*.

<sup>1</sup> Vide my remark on the suffixes अत् *at*, वत् *vat*, मत् *mat*, &c., p. 110.



From the same root मन् *man* and वन् *van* I would derive the participial suffix अत् *at*,<sup>1</sup> Gr. *ov* and Lat. *en*, which are added to the simple root to convey the present tense and to the root modified by the addition of the augments स्य *syā* and स *sa*, to convey the future and past tenses respectively; as,

Sans. द्रवत् <i>dravat</i> ,	Gr. λυον, 'dissolving.'
„ द्रोष्यत् <i>drōsyat</i> ,	„ λυσον, 'about to dissolve.'
„ द्रुसत् <i>drusat</i> ,	„ λυσαν, 'that has dissolved.'

The suffix आन *āna* is added to the Ātmanēpadi roots with the temporal augment स *sa* which is a sign of the past tense; as,

मंदसान *mandasāna*, 'having joyed or having been happy.'

धियसान *dhiyasāna*, 'having thought or contemplated.'

सहसाम *sahasāma*, 'having born,' by the change of *n* into *m*.<sup>2</sup>

The temporal augment स *sa* is changed in Latin into *c* (*k*) in the corresponding forms, and आन *āna*, into *undus*.

Thus the part सान *sāna* in the above forms appears in Latin as *cundus* = *c* (*k*) + *undus*, as in

Lat. *facundus* (Sans. भासान *bhāsāna*), 'eloquent,' radically 'having spoken.'

„ *iracundus*, 'irascible,' radically 'having been angry.'

„ *verecundus*, 'full of bashfulness,' radically 'having felt shame.'

In the above forms the Sanskrit particle स *s* is changed into *c* (*κ*) as in the following list :—

Sans. सूर *sūra*, 'powerful,' Gr. *κυρος*, 'power.'

„ युवस् *yuvās*, Sans. युवाक् *yuvāku*, 'bright.'

<sup>1</sup> Vide my remark on it, p. 110.      <sup>2</sup> Vide p. 129

- Sans. ईषत् *īṣat*, a corruption of एतत् *ētat*, 'this,' Gr. *ἥκα*, 'little;' *ἥσσων*, (*ἥκων*), *ἥσσων* (*ἐκων*), 'less.'
- „ स्पष्ट *spas*, 'to shine,' Sans. क्वथ् *kvath*, 'to boil.'
- „ सम् *sam*, Lat. *con*, 'with.'
- „ एष *ēṣa*, 'this,' Sans. एक *ēka*, 'one,' the words for 'one' in the Aryan languages being traceable to the pronoun 'this.'
- „ साम् *sām*, the gen. pl. suffix of pronouns, which, as well as the gen. sing. suffix of nouns and pronouns स्य *sya*, I hold to be a corruption of स्वम् *svam*, 'possession' and which is changed into नाम् *nām* as in रामाणाम् *Rāmānām*, 'of Ramas.'
- „ कम् *kam*, the genitive plural suffix as in युष्माकम् *yusmākam*, 'of you,' अस्माकम् *asmākam*, 'of me.'
- Gr. *Icos*, 'equal,' which is a modification of इयत् *iyat*, (q.v.) Lat. *equus* in which *q* (*k*) stands for the *σ* of *Icos*.
- Sans. अशुर *ēvaśura*, originally स्वसुर *svasura*, from स्वसृ *svasṛ*, 'daughter.'
- Gr. *ἑκυπος*.

Compare also the Table given further on, in which the change of श *ś* into क *k* has been illustrated.

The same change appears to have taken place in the temporal augment of the perfect and pluperfect participial adjectives in Greek.

The suffix अत् *at* with the temporal augment स *s* seems to have been changed into कोτ by the change of स *s* into क. कोτ is added to the reduplicated roots to form perfect participial adjectives. Thus we have λελυκως (stem λελυ-कोτ) answering to a Sanskrit form such as दुद्रुसत् *dudrusat* = लेλυकोत् where the final τ of the stem लेλυकोत् is cut off before स.

If this view be correct, we may, in conformity to the grammatical construction, designate those forms 'aorist participial adjectives' instead of 'perfect participial adjectives.'

But a better explanation of the form लेλυकोत् is found in comparing it with Sans. दुद्रुवस् *dudruvas*, the past participial adjective of द्रु *dru*, of which the final स *s* corresponds to the final τ of लेλυकोत् and the penultimate syllable व *va*, to the corresponding syllable को, the root द्रु *dru*, to लु, and दु *du*, to ले. From this it would follow that the forms दुद्रुवस् *dudruvas* and लेλυकोत् are identical and that the syllables व *v* and को are allied. The question then would be, which of them is original and which, derived? The solution is not difficult. The form दुद्रुवस् *dudruvas* is satisfactorily accounted for by distributing it as दु *du* + द्रु *dru* + वस् *vas*, दु *du* being the reduplication, द्रु *dru*, root, and वस् *vas*, the termination; and as the forms दुद्रुवस् *dudruvas* and लेλυकोत् are constructed on the same principle and are identical, the syllable को which corresponds to व *va* must be a corruption of the latter.

If this theory be right, it may be applied to many of the perfect forms in Greek ending in *κα* ; such as,

Gr. *πεπλυκα*, Sans. *पुष्पाव* *puṣṭāva*, *πλυ*, 'to wash,' *पु* *phu*, 'to float.'

„ *λελυκα*, Sans. *दुद्राव* *dudrāva*, *λυ*, *द्रु* *drū*, 'to dissolve.'

„ *πεφυκα*, Sans. *बभूव* *babhūva*, *φυ*, *भू* *bhū*, 'to be.'

„ *εκτακα*, Sans. *चिचाय* *cikṣāya*, *κτειν*, *चिष्* *kṣiṇ*,<sup>1</sup> 'to kill.'

„ *τετακα*, (Sans. *तिताय* *tītāya*), *τειν*, *तन्* *tan*, 'to extend.'

„ *εσβηκα*, (Sans. *शिक्षाय* *śikṣāya*), *σβε*, *शम्* *śam*, 'to quench,' appearing in *Σβεννυμι*, *शब्धामि* *śamhāmī* as given in Yaska's *Nirukta*, II. 19.

„ *έστηκα*, Sans. *तस्थौ* *tasthau*, *στο*, *स्था* *sthā*, 'to stand.'

„ *δεδωκα*, Sans. *ददौ* *dadau*, *δο*, *दा* *dā*, 'to give.'

In *πεπλυκα*, *λελυκα* and *πεφυκα* we clearly see that the *κα* must be a modification of the corresponding part *व* *va* of the Sanskrit forms. In *εκτακα*, the part *κτει* of *κτειν* is to be taken as the radical part;<sup>2</sup> so that *κτει* + *κτεε* becomes *κτεκτει*, *κεκτει* and at last *έκτει* by the change of the initial *κ* into *h*. From this we obtain *εκτει* by the loss of the aspirate sound. By the addition of the first person singular suffix *α*, *εκτει* becomes *εκτεια*, by the insertion of

<sup>1</sup> Compare *सृण्* *strṇ*, *वृण्* *vrṇ*, *लीन्* *līn*, *हिन्* *hin*, and *स्पृण्* *spṛṇ*, Note 1, p. 79.

<sup>2</sup> In that case, the *ν* of *κτεινω*, which appears before the first pers. sing. suffix *ω*, must be treated like the *न* of *नो* of *चिणोमि* *kṣiṇōmi* which will be taken as the augment *नु* *nu* (that is *शु* *śnu* according to Pāṇini), if it disappears in the other tenses as *चिचाय* *cikṣāya*; and, if not as in *चिचेण* *cikṣēṇa*, *चिष्* *kṣiṇ*, 'to kill,' it will be treated as the radical part.

*y* to fill up the hiatus between the vowels *ei* and *a*, and it is modified as *ετaka* by the change of *y* into *k*. Similarly in *τεtaka* and *εσβηka*,<sup>1</sup> *tei* and *σβε* are the radical parts of the verbs *τεινω* and *σβεννυμι*, and *ka*, a modification of *y* which occurs in the bracketed Sanskrit forms which are conceivable, if we have such verbs as *तैनोमि tainōmi* and *श्मिनोमि śmināmi* instead of *तनोमि tanōmi* and *श्मामि śamnāmi*, and if we take *तै tai* of *तैनोमि tainōmi* and *श्मि śmi* of *श्मिनोमि śmināmi* as the radical parts.

In the remaining forms *εστηka* and *δεδωka*, the final *ka* must also be a corruption of *ya*; e. g.,

$$\sigma\tau\omicron + \sigma\tau\omicron + a = \sigma\tau\epsilon\sigma\tau\eta ya = \sigma\epsilon\sigma\tau\eta ka.$$

In support of this theory, I may adduce the fact that *y* is changed into *s* in a similar way in the following grammatical forms, such as *दासीष्ट dāsīṣṭa*, 'may he give' = *दा dā* + *ईस् īs*, optative augment before the Ātmanēpadi terminations, (the corresponding augment before the Parasmaipadi terminations being *आस् ās*), becomes *दायीष्ट dāyīṣṭa* and then *दासीष्ट dāsīṣṭa* by the change of *y* into *s*.<sup>2</sup> Similarly *अधासीत् adhāsīt*, 'he drank' = *अ a* + *धा dhā* + *इ i* + *स् s* + *त् t*, wherein *इ i* is a connective augment, *स् s* the

<sup>1</sup> The aspirate sound of the initial *e* is lost.

<sup>2</sup> In the dual *दासीयास्ताम् dāsīyāstām*, there is a peculiar metathesis, as *दासीयास्ताम् dāsīyāstām* = *दा dā* + *ईस् īs* + *आताम् ātām* = *दा dā* + *ई ī* + *आ ā* + *स् s* + *ताम् tām*, by the transposition of the initial vowel *आ ā* of the suffix *आताम् ātām* between *ई ī* and *स् s*, = *दायीयास्ताम् dāyīyāstām* = *दासीयास्ताम् dāsīyāstām*.

temporal augment, and त् *t*, personal suffix, becomes अधासि स्त *adhāsist*; and as two consonants स्त *st* cannot remain at the end of the word, the first consonant स् *s* is elided and the previous vowel is lengthened. (Compare  $\pi\acute{\alpha}s = \pi\alpha\nu + s$ , 'all,'  $\delta\acute{\iota}δους = \delta\acute{\iota}δον + s$ , 'giving'). Similarly springs from य *y* and व *v*  $\theta$  in some forms, such as  $\lambda\upsilon\theta\eta\sigma\omicron\mu\alpha\iota$  लविष्ये *lavīṣyē*,  $\acute{\epsilon}\theta\eta\sigma\omicron\mu\alpha\iota$  याविष्ये *yāyīṣyē*,  $\delta\omicron\theta\eta\sigma\omicron\mu\alpha\iota$  हाविष्ये *dāṣyē*. But in  $\delta\epsilon\iota\chi\theta\eta\sigma\omicron\mu\alpha\iota$  which ought to be properly  $\delta\epsilon\iota\chi\omicron\mu\alpha\iota$  corresponding to Sans. द्रक्ष्ये *drakṣyē*, 'I shall be seen,'  $\theta$  is inorganically inserted as in अरम्सीत् *aramsīt*. (Vide, p. 119.)

In the following *ka* is inserted by wrong analogy :—

Gr.  $\acute{\epsilon}\sigma\tau\alpha\lambda\kappa\alpha$ , तस्थाल *tasthāla*,  $\sigma\tau\epsilon\lambda\lambda\omega$ , 'to set,' स्थल *sthal*, 'to be.'

„  $\epsilon\sigma\pi\alpha\rho\kappa\alpha$ , चकार *cahāra*,  $(\sigma) \pi\epsilon\rho\omega$ , 'to sow,' Sans. किर *kir* (क *kr*), 'to scatter.'

„  $\pi\epsilon\pi\epsilon\iota\kappa\alpha$ , बुबोध *bubōdha*,  $\pi\epsilon\iota\theta\omega$ , बोध् *bōdh*, 'to advise,'  $\pi\epsilon\pi\epsilon\iota\theta\kappa\alpha$  becoming  $\pi\epsilon\pi\epsilon\iota\kappa\alpha$  by the elision of  $\theta$ .

„  $\epsilon\sigma\pi\epsilon\iota\kappa\alpha$ , श्वास *śāvāsa*,  $\sigma\pi\epsilon\nu\delta\omega$ , 'to offer an oblation,' श्वस् *śvas*, 'hope,'  $\epsilon\sigma\pi\epsilon\nu\delta\kappa\alpha$  becoming  $\epsilon\sigma\pi\epsilon\iota\kappa\alpha$ , by the elision of  $\nu\delta$ .<sup>1</sup>

Similar to this is the use of र *r* which is derived from

<sup>1</sup> I see a similar usage in the Dravidian languages, in which the change of *y* and *v* into *k* takes place in many grammatical forms and the *k* so derived is inorganically inserted in other forms not requiring it; thus, in Tam. நடக்க *naḍakka*, உரைக்க *urāikka*, which are respectively modified from நடவ *naḍava* = நட *naḍa* + அ *a*, 'to walk,' and உரைய *urāiya* = உரை *urai* + அ *a*, 'to say,' in which நட *naḍa* and உரை *urai* are roots and அ *a* infinitive suffix. From the analogy of such wrong forms we get கற்க *karṭka*, 'to learn,' which stands for கல்ல *kalla*, and நிற்க *niṭka*, 'to stand,' for நில்ல *nilla*, from the roots கல் *kal*, 'to learn,' and நில் *nil*, 'to stand.' (Vide Vol. II.)

य *y* and स *s* as in एधेरन् *ēdhēran* = एधेयन् *ēdhēyan*, 'they may grow' = एध् *ēdh* + ईय् *īy* + अन् *an*; एधिषीरन् *ēdhiṣīran*, 'may they grow' = एध् *ēdh* + ईस् *īs* + अन् *an* = एधियीसन् *ēdhiyīsān* = एधिषीसन् *ēdhiṣīsān* by the change of य *y* into स *s* = एधिषीरन् *ēdhiṣīran* by the change of the second स *s* into र *r*; शेरते *śēratē* = शेयते *śēyātē* = शे *śē* + अते *atē*. The र *r* which is so derived from य *y* and स *s* and the स *s* derived from य *y* as in अधासीत् *adhāsīt* as shown above, are inserted in forms which do not require them, as संविद्रते *saṁvidratē*, 'they feel,' for संविदते *saṁvidatē*, अग्रधन् *agr̥bh̄ran*, 'they took,' for अग्रधन् *agr̥bh̄an*, अरमसीत् *aramsīt*, 'he played,' for अरमीत् *aramīt*. (Vide Note 1, p 27.)

It is worth notice here that, as व *v* is changed into क *k*, and य *y* into क *k*, स *s* and र *r*, य *y* is changed also into δ. Thus, the final δ in the feminine nouns and adjectives ending in ι in Greek is traceable to the Sans. य *y*, as in πατρίς (ιδ), 'native land,' φροντις (ιδ), 'thought,' 'care,' πεντηκονταετις (ιδ), feminine form of πεντηκονταετης, 'lasting fifty years,' θερμαστρις (ιδ), 'fire tongs,' (θερμαστρα, 'oven, furnace,') θερμαστρις (ιδ), 'boiling kettle,' (θερμανσις (εως), 'heating,') Θεις (ιδ), सिंधु *sindhu*. The δ in these and other nouns and adjectives similarly declined cannot belong to the stems as these end in vowels only; for Gr. πατρίς must be equal to Sans. पितृ *pitṛ* + ई *ī* = पित्री *pitṛī*, the final ई *ī* of which being shortened in πατρίς, the word should be considered as an इकारान्त *ikārānta*, that is, a stem ending in इ *i*, and declined like Sans. मति *matī*. Compare πατρα, another form used instead of πατρίς. The same remark applies to Gr. θερμαστρις, for it is the feminine form of θερμαστωρ and, consequently, in analogy of the Sans. कर्तर *kartar*,

mas., कर्त्री *kartrī*, fem., 'doer,' should be *θερμαστρη* (cf. *θερμαστρα*), but the final vowel being shortened, it becomes *θερμαστρις* in the nominative singular. The words *θερμαστρις* and *θερμαντρις* are identical forms, being nouns formed from the verb *θερμαινω*, 'to heat,' by the addition of the suffixes *τι* and *σι*, the only difference being the insertion of the augment *ν* before *τι* in *θερμαντρις*. *σι* and *τι* are identical with Sanskrit verbal noun suffix *ति* *ti*.

As for *Θετις*<sup>1</sup> which is applied to one of the Nereids, who was the wife of Peleus and mother of Achilles, I think it corresponds to, and is a modification of, Sans. *सिंधु* *sindhu*, 'a river,' the final *उ* *u* of which is changed into *ι* in *Θετις*. The word, therefore, must be a vowel stem and be declined like *मति* *mati*. From this it would follow that the *δ* appearing in the declension of the above nouns cannot be a part of the stem, but must be an outgrowth of the orthographical changes which take place when the casual suffixes are affixed to the stem; thus,

SINGULAR.	DUAL.	PLURAL.	
Θετις	Θετιδε	Θετιδες	Nom.
—δα	—δου	—δας	Acc.
—δος*	—δου	—δων	Gen.

<sup>1</sup> *Θετις* seems to be identical with *Θητυς*, differing only in form slightly. I have shown in the *Salila* Group the alliance of these two words to the Sans. *सिंधु* *sindhu*, 'a river,' 'ocean,' and through it have traced them to the word *सलिल* *salila*, so that the radical meaning of those words is 'water.' The above etymology receives support from a remark of Mr. Gladstone made in his Juv. Mun., p. 343. He says: 'With reference to the etymology of this name, it is perhaps worthy of remark that the only office of mediation at all resembling hers is ascribed to Tethus who with her husband Okeanos gives shelter and nurture to Here, at the great crisis when Zeus was thrusting his father Cronos down to the under world.'

<sup>2</sup> In some nouns the *δ* declension alternates with the *ι* declension, as in *Ιβιος* and *Ιβιδος*, the gen. sing. of *Ιβις*, 'the ibis.'



Now comparing the above declensional forms with the corresponding ones of मति *mati*, we can easily see that the  $\delta$  is referrible to the *y* which makes its appearance in some forms such as मतयस् *matayas* and मतये *matayē*. But this *y* appears uniformly in all casual forms in the declension of such nouns as धी *dhī* with which, therefore, we may compare the declension of *Θेतis* better.

SINGULAR.	DUAL.	PLURAL.	
धीस् <i>dhīs</i>	धियौ <i>dhiyau</i>	धियस् <i>dhiyas</i>	Nom.
धियम् <i>dhiyam</i>	धियौ <i>dhiyau</i>	धियस् <i>dhiyas</i>	Accus.
धियस् <i>dhiyas</i>	धियोस् <i>dhiyōs</i>	धियाम् <i>dhiyām</i> .	Gen.

Now, if we call *Θेतis* a consonant stem, we may with equal propriety call धी *dhī* also the same. But धी *dhī* is only a vowel stem and the य *y* appearing in its declension is only an offshoot of the rules of Sandhi, and the declension of धी *dhī* and *Θेतis* are very similar, the only difference being that the former is a long vowel and the latter a short vowel stem. From this it follows that धियस् *dhiyas*, &c., and *Θेतides*, &c., being equal, part to part, the letter  $\delta$  must be a modification of *y*.<sup>1</sup>

Compare also the Greek and Sanskrit patronymics in which the  $\delta$  of Greek answers to the य *y* of Sanskrit ;—

Sans. आत्रेय *Ātrēya*, descending from अत्रि *Atri*, Gr. *Ατρινδης*.

<sup>1</sup> Prof. Bopp says : “The Greek termination *ιδ*, the  $\delta$  of which is undoubtedly an inorganic affix, is, however, in so far ambiguous, that its *i* is frequently the abbreviation of a Sans. *ī*, ..... so we might also regard the said Greek formations in *ιδ* as corresponding to the Sanskrit formations in *ī* and therefore derive, e. g., *γραφιδ* from a to-be-presupposed masculine base *γραφο* or *γραφδ* in the same way as, e. g., *στρατηγ’-ιδ*, ‘female leader of an army,’ comes from *στρατηγδ*; *κορων’-ιδ* from *κορωνο*.” (Comparative Grammar, Vol. III, p. 1313).

Sans. **आश्रपतेय** *Āśrapatēya*, descending from **अश्रपति** *Āśrapati*, Gr. 'Ἰπποταδης, from *ἵππο* + *ποτης* (ποσις, पति *pati*.)

Sans. **नदेय** *nādēya*, 'sprung from a river,' **नदी** *nadī*, 'a river,' Gr. *Naias*.<sup>1</sup>

I may mention here a similar change of **य** *y* into other consonants such as *ss*, *z*, and *t*; as,

GREEK	SANSKRIT
φυλασσω, 'I watch,'	मीलयामि <i>mīlayāmi</i> , 'I shut'
αλλασσω, 'I change,'	अन्ययामि <i>anyayāmi</i> .
αφασσω, } 'I handle,'	ग्राभयामि <i>grābhayāmi</i> .
ἀφαω }	पाटयामि <i>pātayāmi</i> .
πατασσω, 'I beat,'	दीक्षयामि <i>dīkṣayāmi</i> .
δοξαζω, 'I believe,'	जावयामि <i>jāvayāmi</i> .
θοαζω, 'I move,'	क्रोशयामि <i>krōṣayāmi</i> .
κραυγαζω, 'I scream,'	क्षणयामि <i>kṣaṇyayāmi</i> (from
σχεδιαζω, 'I do off-hand,'	क्षण <i>kṣaṇa</i> , 'a moment' + य <i>y</i> = क्षण <i>kṣaṇya</i> , 'momentary'.)
ιαπτω, 'I send,'	यापयामि <i>yāpayāmi</i> .
καλυπτω, 'I conceal,'	गर्भयामि <i>garbhayāmi</i> .
κολαπτω, 'I hew,' allied to	गावयामि <i>grāvayāmi</i> (from
γλυφω and γραφω	गावन् <i>grāvan</i> , 'stone.')
δαπτω, 'to devour,'	{ जेमयामि <i>jēmayāmi</i> .
	{ तेवयामि <i>tēvayāmi</i> .

<sup>1</sup> The Sans. **नद** *nada*, 'a river,' is softened into Gr. *vaios* which, taking the suffix *αδης*, becomes *vaiαδης* and then shortened into *vaias* (stem *vaiαδ*).

In the above examples  $\sigma\sigma$  and  $\zeta$  and  $\tau$  are inserted for the य  $y$  of the Sanskrit words. The change of  $y$  into  $t$  does not take place directly, but through  $s$ ; as यापयामि  $yāpa-yāmi = \iota\alpha\pi\alpha y\omega = \iota\alpha\pi y\omega$ , by the elision of the  $a$  preceding  $y = \iota\alpha\pi\sigma\omega$ , by the change of  $y$  into  $\sigma$  and  $\iota\alpha\pi\tau\omega$  by the hardening of  $\sigma$  into  $\tau$ .

I may mention here a similar change of  $y$  into  $g$  which I suppose to have taken place in the following verbs:—

Lat. <i>mitigo</i> ,	Sans. मृदयामि <i>mradayāmi</i> , 'I soften,' मृदु <i>mṛdu</i> , Lat. <i>mitis</i> , 'soft.'
„ <i>castigo</i> ,	„ शुद्ध्यामि <i>śuddhayāmi</i> , 'I purify,' शुद्ध <i>śuddha</i> , Lat. <i>castus</i> , 'pure.'
„ <i>fumigo</i> ,	„ धूपयामि <i>dhūpayāmi</i> , 'I cause to smoke,' धूप <i>dhūpa</i> , Lat. <i>fumus</i> , 'smoke.'

The latter parts in the above Latin verbs are considered as a contraction of *ago*, 'to make.'<sup>1</sup>

From the above examples it is clear that in λελυκοτ, the termination वस् *vas* is changed into कोτ by the insertion of  $\kappa$  for व  $v$ . We may therefore lay down a general rule that वस् *vas* is changed into कोτ after roots ending in vowels, and, after those ending in consonants, the initial  $v$  is elided. But in the irregular form λελειχμοτες (लेलिङ्गतस् *telih-vatas*) the original form of वस् *vas*, viz. मत् *mat*, appears as suffix, as λελειχμοτ = लेिख + लेिख + मोत, लेिखω, 'to lick.'

The aorist participial adjective लुसाσ (stem लुसान्त) has

<sup>1</sup> In the Dravidian languages also the change of  $y$  and  $v$  into  $s$ ,  $t$ ,  $g$ ,  $d$ ,  $l$ ,  $r$  and other letters frequently occurs and has been illustrated in Volume II.

already been compared with **द्रुसत्** *drusat*, the past participial adjective from **द्रु** *dru*, 'to dissolve.' (p. 113.)

Next **वन्** *van* and **मन्** *man* used to indicate possession are changed in Latin and Greek as follows :—

Lat. *formōsus*, 'beautiful' = *forma* + *vat* + *us*.

„ *formidōlosus*, 'dreadful' = *formidon* + *vat* + *us*, in which the final *n* of *formidon* is changed into *l*.

„ *dives*<sup>1</sup> (*itis*), Sans. **दैवत्** *raivat* (p. 51) = Sans. **दैस्** *rais* (Lat. *res*) + **वत्** *vat*.

„ *opulus* (*entes*), Sans. **अपसवत्** *apasavat*, 'rich,' Lat. *oper* (Sans. **अपस** *apasa*) + *vat*.

„ *Neptunus*, 'Neptune,' is a contraction of Sans. **नभस्वत्** *nabhasvat* meaning 'having **नभस्** *nabhas*, water,' and so applied to the God of ocean, + **अस्** *as* = **नभस्वतंस** *nabhasvantas* = *Nepsantus* = *Neptunus*, wherein the *a* of **भ** *bha* is elided and **भ्** *bh* is changed into *p*, *s* is changed into *t*, and the part *antus*, into *ūnus*.

Gr. **μελιτοεις**, — **εσσα-εν**, Sans. **मधुमत्** *madhumat*, Gr. **μελιτ** + *o* + *Fes*, wherein the *o* is a nexus; Gr. **τυροεις**, 'like cheese,' from **τυπο** + *Fes*.

„ **Διονυσος**, 'Bacchus, the god of wine, vineyards and dramatic poetry' = **दिवस्** *divas* + **वत्** *vat* + **अस्** *as* = **Διον** + *us* + *os* by the change of **दिवस्** *divas* into **दियस्** *diyas* and then into **Διον**. Compare the Latin suffix *osus*.

„ **Τριτων**, 'Triton, a sea god, son of Poseidon,' (**प्रचेतस्** *Pracētas*) and **Amphitrite** = **सरस्** *saras* + **वन्** *van*

<sup>1</sup> Also shortened into *dis* (*ditis*).

(सरस् *saras*, 'water') = *τριτ* + *ων*, where सरस् *saras* is contracted into *τριτ*.<sup>1</sup> Similarly,

Gr. *Ανδρων*, 'men's apartment' = *ανηρ* + *van* = *ανδρ* + *ων*.

,, *Ιππων*, 'a stable' = *ιππο* + *van*.

,, *Τιταν*, 'A Titan, applied to a race of gods placed beneath Tartarus, or, according to the Hesiodic Theogony, to the six sons and six daughters of Uranus and Gaia; laterly applied to the sun; = *दिवस्* *divas* + *वन्* *van* = *तित्* *tit* + *वन्* *van* by the contraction of *दिवस्* *divas* into *दिस्* *dis* and then into *ττ* (cf. *दिति* *diti*) and then = *Τιταν*.

,, *Τιθωνος*,<sup>2</sup> 'Tithonos, brother of Priam and husband of Aurora and father of Memnon'; = *सिंधु* *sindhu* + *मन्* *man* + *अस्* *as* in which *मन्* *man* is changed into *ων*.

<sup>1</sup> The same word सरस् *saras*, 'water,' is shortened into *चित* *trita*, Gr. *τριτος*. *चित* *trita* in the Vedas is 'the god of water and air,' and we can infer the same of the Gr. *τριτος* from the epithet of *Athênê*, *τριτογεγεῖα*, 'the child of *τριτος*' (vide the *Salila* Group). We must give up the idea of deriving the word *चित* *trita* from *चि* *tri*, 'three,' or from the alleged Echi word for head, though the word *चित* *trita* is as close to the Sans. *शिरस्* *śiras*, 'head' as it is to सरस् *saras*, 'water.' (Cox's Mythology, Vol. I, p. 440.)

<sup>2</sup> Similarly the suffix *वन्* *van* added to *मघ* *magha* in *मघवन्* *maghavan* is optionally changed into *वान्* *vān* and *ओन्* *ōn* as in *मघवानौ* *maghavānau*, nom., accus., voc. dual, *मघोना* *maghōnā* instr. sing., *मघोने* *maghōnē*, dat. sing.

Gr. *Aξον*, 'axle,' *अक्ष akṣa* + *वन् van* = *Aξ + ov*.

Next *वन् van* and *मन् man* are affixed to verbal roots to indicate *nomen agentis*, the action of the verb, its object and so on, and correspond to Gr. *μᾶν, μov, μev*, Lat. *men* and *mentum* and so on. They are changed into *उस् us* as *वस् vas* (originally *वन् van*) is in some oblique cases, as *विदुषा viduṣā*, 'by the sage,' *विदुषे viduṣē*, 'to the sage,' *विदुषः viduṣah*, 'of a sage'; as also *वन् van*, the possessive suffix, is changed in the Vedic language in the vocative singular, as *भगवस् bhagavas*, *भगोस् bhagōs*, *भवस् bhavas*, and *भोस् bhōs*, 'o lord,' *भगवन् bhagavan*, 'lord.'

Sans. *यज्वन् yajvan*, 'a sacrificer,' *यज् yaj*, 'to sacrifice.'

„ *धीवन् dhīvan*,<sup>1</sup> (Gr. *θαιομῶν*), 'a thinker,' *धै dhyai*, 'to think.'

„ *पीवन् pīvan*, 'one who has become fat,' *पै pyai*, 'to swell.'

„ *यजुस् yajus*, (*यज्वन् yajvan*), 'the Yajur Vēda,' *यज् yaj*, 'to sacrifice.'

„ *धनुस् dhanus*, (*हन्वन् hanvan*), 'a bow,' *हन् han*, 'to kill.'

„ *परुष् parus*, (*पर्वन् parvan*, 'a knot,' *परि pari*, 'end.'

„ *जनुष् janus* (*जन्मन् janman*), 'birth,' *जन् jan*, 'to be born.'

„ *चक्षुस् caksus*, (*चक्षन् cakṣman*), 'eye,' *चक्ष cakṣ*, 'to say,' 'to proclaim.'

Gr. *ἡγεμῶν*, 'a leader.'

„ *θεομῶν*, 'a spectator.'

<sup>1</sup> Unādi Sūtra, IV. 114.

Lat. *sermo*(n), 'a speech,' literally any thing connected, *sero*, 'to connect.'

„ *termo*(n), 'a boundary,' *tero* (Sans. तर् *tar*), 'to cross.'

Gr. ποιμην (μην), 'a herdsman,' ποι, 'grass.'

„ πυθμην (μην), 'bottom,' from an obsolete root *πυθαω*, 'to be deep.'

Lat. *segmen* (ēnis), 'that which is cut off,' from *seco*, 'to cut.'

„ *certamen* (ēnis), 'a contest or struggle,' from *certo*, 'to contend,' *cerno*, 'to separate.'

„ *velamen* (ēnis), 'a cover,' from *velo*, 'to cover.'

This suffix *men* is modified as *mentum* by the addition of the suffix *um*, as *men* + *um* = *mennum* by the doubling of *n*, and *mentum* by the hardening of the second *n*<sup>1</sup>; as in *velamentum*, *velamen*, 'cover'; *segmentum*, *segmen*, 'segment'; *argumentum*, *argumen*, 'argument.'

In *velamen* and *certamen*, the augment *ā* preceding the suffix *men* and also the *ī* as in *specimen*, and *ū* in *tegumen* are like *ē*, *ī*, *ū* in पचेलिम *pacēlima*, 'ripe,' गरिमन् *gariman*, 'greatness,' and भरिमान् *bharīman*, 'wealth.'

त्वन् *tvān* is shortened into त्वम् *tvam* and is suffixed to nouns, adjectives and, in the Vedic language, to verbs also; as,

जनित्व *janitva*, 'parent,' जन् *jan*, 'to be born,' (Uṇādi Sūtra, V. 104, 105).

पेत्वम् *pētvam*, 'nectar,' पा *pā*, 'to drink.'

सोत्व *sōtva*, 'which is to be poured,' सु *su*, 'to pour,' (Rig Veda, X. 160, 2.)

कर्तवम् *kartvam*, 'action,' कृ *kr*, 'to do.'

<sup>1</sup> Compare *elementum* = *elemen* (आत्मन् *ātman*) + *um*.

We may next proceed to स्म *ma*, Gr. *σμος*, which are directly derived from त्वन् *tman* by the change of the initial त *t* into स *s* and the elision of the final *n*. Like त्व *tva*, *σμος* is used both as an adjective and a noun suffix ; as,

Sans. सूक्ष्म *sūkṣma*, 'small,' सूच् *sūc*, 'to point.'

Gr. ἐγκелеυσμος, 'encouragement.'

„ βαπτισμος, 'a dipping in water.'

„ κατευθισμος, 'direction.'

The Latin suffix corresponding to त्वम् *tvam* is *tium*.

Compare *tion*, त्वन् *tvān*, in which the letter व *va* is changed into two syllables as *io* in *tio* (*n*), Sans. त्वन् *tvān* ; e. g., *Pretium*, 'price' = *pre* + *tium*, in which *pre* is an obsolete root connected with Sans. क्री *krī*, and Gr. *πρε*, which becomes *περ* by metathesis as in *περναμαι*, and *πρα* as in *πρατηρ*, Sans. क्रेतृ *krētr*, 'a seller,' *πρατος*, क्रीत *krīta*, 'sold.'

*Initium*, 'a going in or entrance' = *in* + *i* + *tium*, *i*, 'to go.'

*Exitium*, 'a going out' = *ex* + *i* + *tium*.

त्वम् *tvam* is changed in Sanskrit into त्व *tya* corresponding to Lat. *tiu* and forms adjectives as कृत्य *krtya*, and into स्य *sya* (स्य *sya*) as रुचिस्य *rucisya*, 'agreeable,' 'desirable,' रुच् *ruc*, 'to like ;' भुजिस्य *bhujisya*, 'serving,' भुज् *bhuj*, 'to enjoy.'

In धेनुया *dhēnuṣyā*, 'a cow tied up for milking,' the suffix is used with a diminutive force, like the corresponding Greek suffix *διον* as in *βοηδιον*.

Corresponding to the Sans. स्य *sya* we have in Greek *σιο*, as in *θυσια*, 'sacrifice,' from *θυω*, 'to sacrifice ;' *ετησιος*, 'a year long,' *ετος*, 'a year ;' *Ιθακησιος*, 'belonging to Ithaca ;' *Φλιασιος*, 'belonging to the town of Phlius.'



त्वन् *tvan* is modified as तन् *tana* and is used as an adjectival suffix corresponding to Lat. *tinu*; as Sans. श्वस्तनस् *śvastanas*, Lat. *crastinus*, 'of to-morrow'; दिवातनस् *divātanās*, 'belonging to the day,' Lat. *diutinus*, 'lasting long' (radically, 'belonging to day.')

It is from this suffix तन् *tana* that one set of comparative and superlative suffixes are derived in the Aryan languages, while the other set is produced by the suffix वत् *vat* as already shown (pp. 110-111). तन् *tana* is modified as तर *tara* by the change of न *n* into र *r* as in ह्र *tr*, Gr. *top*, and Lat. *tor*, suffixes of agency; त्र *tra*, an adverbial suffix of place; and त्रम् *tram*, Gr. *τρον*, Lat. *trum*, suffixes indicating instrumentality, and the like. These suffixes are derived from तन् *tana* as will be shown hereafter. The suffix तर *tara* so formed is used to form comparative degrees of adjectives.

तन् *tana* produces also the superlative suffix तम् *tama* in Sanskrit by the change of न *n* into म *m* as in स्यून *syūna*, स्यूम *syūma* (§ 22), सहसान *sahasāna*, 'having born,' that is, 'able to bear,' changed into सहसाम *sahasāma*.<sup>1</sup> The change occurs in the following pronominal stems also and deserves notice here. एष *ēṣa*, एत *ēta*, एन *ēna* and अन् *ana* are all identical forms composed of इ *i*, 'this,' and स *sa*, त *ta*, and न *na*, modifications of the demonstrative pronoun 'he,' and they appear also in the form of अम *ama* and इम *ima*.<sup>2</sup> अन् *anas* is changed into अनो *anō* by the

<sup>1</sup> Tait. Mantra Praśna, I, 11.

<sup>2</sup> Corresponding to इम *ima* (इन् *ina*), there must be a form एम *ēma* (एन् *ēna*); and the indeclinable particles इव *iva*, 'like,'

Prakritic method of changing अस् *as* into ओ *ō*, and अमी *amō*<sup>1</sup> by the change of न *n* into म *m* and then modified as अमु *amu*, अमू *amū* and अमी *amī*, which are substituted for the declensional forms of अदस् *adas*.

Compare अमी *amō* occurring in the passage quoted in p. 72, अमीहमस्मिषात्वम्षात्वमस्यमीहम् *amōhamasmisāt-vam sātvamasyamōham*, where I divide अमीहम् *amōhas* into अमी *amō* + अहम् *aham*; for it answers to the word अमू *amū* occurring in a corresponding passage quoted in the previous page, अमूहमस्मिषात्वम्षात्वमस्यमूहम् *amūhamasmisāt-vam sātvamasyamūham*. (Vide Note 1, p. 71).

As Sans. तनस् *tanas* becomes *tinu* in Latin, so does Sans. तम *tama* become *timu*, *simu*, *rimu*, of which *tumu*, *sumu*, *rumu*, &c., are original forms (Zumpt's Latin Grammar, p. 85). But in Greek, the final न *n* of the Sans. तन *tana* is changed into *t* and produces the superlative suffix *taro*. To illustrate this change of *n* on the one side into *m* and on the other into *t*, I shall give one example.

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and एव *ēva*, 'thus,' in the earlier language, 'only,' 'certainly,' and एवम् *ēvam*, 'thus,' and 'like,' are modifications of इम *ima* and एम *ēma* respectively. This change of म *m* into व *v* has taken place in अवोस् *avōs*, the genitive of अमु *amu*, used in the Rig Veda, X. 132. 5.

<sup>1</sup> Similarly the nominative singular masculine and feminine form असौ *asau* is to be derived from असौ *asō* which is a modification of असस् *asas*, as अनौ *anō* is of अनस् *anas*, the other form of असस् *asas*.

The masculine suffix अस् *as*, Gr. and Lat. *os*, is changed into अन् *an*, Gr. *ov*, and this अन् *an* is modified as अम् *am* in Sanskrit as in ज्ञानम् *jñānam*. But the न *n* of the same अन् *an* is hardened into त *t* in pronouns as in तत् *tat*, 'that,' यत् *yat*, इतरत् *itarat* (Gr. *ἐτερον*), wherein the final *t* corresponds to the *ν* of Gr. *ἐτερον* and *d* of the Lat. *istud*, *illud*.

From तम् *tama* is derived Sans. लिम् *lima* as in पचेलिम् *pacēlima* and भिदेलिम् *bhidēlima*, Gr. *σιμος* and *σινος* as in *κρισιμος*, 'decisive,' *βασιμος*, 'accessible' (p. 6), and *γελασινος*, 'laughter;' Lat. *tivus* as in *dativus*, 'giving,' *optativus*, 'wishing.'

In the Gr. *ὀφθαλμος*, the suffix लिम् *lima* seems to be shortened into ल्मो, thus *ὀφθαλμος* = *ὀπτ* + *a* + *λμος*, *a* being the connecting vowel, from *ὀπτω*, 'to see' (Sans. अक्ष *akṣ*). The word, therefore, means 'that which sees,' that is 'the eye.'

तन् *tana* yields तर् *tar*, Gr. *τωρ* and Lat. *tor*, is shortened into त्ना *tna* and then modified into त्नु *tnu* and also स्नु *snu*. तर् *tara* is shortened into त्र *tra*, Lat. *tru* and *tra* and assumes in Greek the forms of *θρο*, *θρα*, *τλο*, *τλα*, *θλο* and *θλη*, and also of *δνο* as in *λεπαδνον*, 'a broad leather strap,' from *λεπω*, 'to strip off the husks;' *εχιδνα*, 'a viper,' 'a monster having the upper part of the body of a woman and the lower part of that of a serpent,' from *εχis*, 'a viper;' *Αριαδνη*, from *αρειος*, 'warlike,' originally 'good,' Sans. अर्ह *arha*; and *Ευαδνη*, from *ευ*, 'good,' Sans. सु *su*. *Evadne*<sup>1</sup> was the daughter of *Iphicles* of *Argos*, of whom

<sup>1</sup> The Sans. सुंदरी *sundarī* is closely allied to Gr. *Ευαδνη*, सु *su* answering to *ευ* and तरी *tari* to *δνη*. Radically the word must be सुतरी *sutarī* and then modified as सुंदरी *sundarī*.

Apollo was enamoured. But she rejected his love and married one of the seven chiefs who went against Thebes. Her husband was killed by Jupiter with thunder stroke for his blasphemy, and she perished with him.

Ariadne was the daughter of Minor II, king of Crete, by Pasiphae. She loved Theseus and was married by him. But when she was pregnant she was forsaken by him in the island of Naxos.

In these words the suffixes *diva* and *divy* are added to *exis* and *apeios* and *ev*.

From *तर tara* is derived the adverbial suffix *त्र tra* and from *तन tana*, *तस् tas* (Gr. *θεν*) and *तात् tāt*.

There are many more suffixes which may be included in the list ; but as I have to treat of the subject at full length in my Comparative Grammar of Sanskrit, Greek and Latin, I content myself with what I have said.

66. I have to observe here that if the above genealogy of the Sanskrit, Greek and Latin suffixes be correct, it would follow as a corollary that most of the personal pronouns in the above languages which are allied to them both in form and meaning are traceable to the same sources *तमन् tman*, and *आत्मन् ātman* ; for *तमन् tman* is modified, as shown above, into *तमत् tmat*, *त्वत् tvat*, *त्वनम् tvanam*, *त्वता tvatā*, *त्वत tvata*, *त्य tyā*, *स्य sya*, *तन tana*, *तम tama*, *तात् tāt*, Lat. *don*, *gon*, Sans. *मान māna*, Gr. *μενο*, Sans. *मन् man*, *वन् van*, *म ma*, *व va*, Lat. *ion* (*य ya*), &c.

Similarly *आत्मन् ātman* may be modified in the first person as *अस्मन् asman*, *अस्म asma*, *अहम् aham*, *आव āva* by the change of *अस्म asma* into *आम āma* and by the insertion of *व v* for *म m* ; *वयम् vayam* properly *अवम् avam*

which, by the initial addition of व *v*, becomes ववम् *vavam* and then वयम् *vayam* (Comp. यूयम् *yūyam*) ; मा *mā* a shortened form of आमा *āma* and न *na* which is to be derived directly from म *ma*. In these forms the general meaning of आत्मन् *ātman*, viz., 'a soul' or 'spirit,' is modified by reference to the speaking 'soul,' that is, the person who speaks, or, in one word, 'I.' In the second person the same radical word आत्मन् *ātman* is modified as उस्मन् *usman*, युष्म *yuṣma* (properly उस्म *usma*), युव *yuva* (उस्म *usma* being changed into उम *uma* and उव *uva* by the change of म *m* into व *v* as in आव *āva*, and at last युव *yuva* by the initial addition of य *y*), यूयम् *yūyam*, उवम् *uvam* modified as युवम् *yuvam* and यूयम् *yūyam* by the change of व *v* into य *y*, त्वत् *tvat*, त्व *tva* (Gr. *σφεῖς*, you, *pl.*) and व *va* which is a contraction of उव *uva*. In these forms, आत्मन् *ātman* restricts its meaning to the hearing soul, that is, the person that hears, in one word, 'thou.' Just as आत्मन् *ātman* modified as अस्मन् *asman* and उस्मन् *usman* came to mean 'I' and 'thou' respectively, so did it come to mean 'he' under the form त्व *tva*, Gr. *σφεῖς*, 'they' (*masc. pl.*), *σφεα* (*neut. pl.*), *σφών* (*gen. pl.*). This त्व *tva* is modified as त्य *tya* and स्य *sya* by the change of व *v* into य *y* and also into त *ta* and स *sa* by the elision of य *y*. The same त्व *tva* passes from the meaning of 'he' to that of 'who,' both *inter.* and *rel.*, under the modified forms क्व *kva*, *Lat. qua*, and *Teut. hva*, wherein the त *t* of त्व *tva* is changed into क *k*, and ह *h*. This क्व *kva* is developed into two syllables as कव *kava*,

कय *kaya* and किय *kiya*, and shortened into क *k* and य *y*. कव *kava* is changed in Greek into *ὄπο* as in *ὄποσος* in which the initial क *k* is changed into ह *h*, and व *v* into π, and corresponding to which we may conceive such a form as कवावत् *kavāvat* (that is कियत् *kiyat*); and as in also *ὄπολιος* which is shortened from *ὄποσος* as *πολιος* and *कोλιος* from *ποσος* and *कोσος* (p. 138). The Sans. क *ka*, inter. 'who,' becomes in Greek *πο*, and य *ya*, rel. 'who,' *ἀ*. In Latin and the Teutonic languages, *kva* and *hva* remain unchanged and are used for the rel. and the inter. pronoun. (Vide p. 97.)

To the different forms which the word आत्मन् *ātman* assumes in the pronouns may be added the following forms which are the remnants of abraded pronominal forms amalgamated with roots: FIRST PERSON, मस् *mas*, मसि *masi*, मेθα, मेθον, वस् *vas*, व *va*, वहे *vahē*, वहे *vahai*, वहि *vahi*, वसि *vasi*, मा *mā*, मस् *mas* and मेव, &c.; SECOND PERSON, तन *tana*, थन *thana*, स्यन *syana*, तात् *tāt* (sing. & pl.), ध्वात् *dhvāt*, ध्वैनम् *dhvainam*, ध्वा *dhvā*, ध्वे *dhvē*, ध्वम् *dhvam*, स्व *sva*, स्वा *svā*, Lat. *mini*, तम् *tam*, τον, थास् *thās*, थाम् *thām*, से *se*, थे *thē*, थस् *thas*, *σθον*, &c.; THIRD PERSON, तात् *tāt*, Lat. *tote*, *τωσαν*, *σθωσαν*, *την*, *των*, *τον*, *σθην*, *σθων*, *σθον*, ति *ti*, ते *tē*, *ται*, त *ta*, ताम् *tām* and तस् *tas*, &c.

67. From the same word आत्मन् *ātman* is contracted त्मन् *tman* as already noticed, which is modified as स्वन्नम् *svannam* by the addition of the suffix अम् *am* and by the change of त *t* into स *s* and म *m* into व *v*, and स्वांतम्

*svāntam*<sup>1</sup> by the hardening of the second न *n* into त *t*, and the lengthening of the first vowel अ *a*. आत्मन् *ātman* is contracted into मन् *man*, 'to think,' from which come the words मनस् *manas*, Gr. *μενος*, Lat. *mens*, and मा *mā*, 'to think,' Gr. *μναομαι*, 'to remember,' 'to court.' स्ना *mnā*, 'to think repeatedly,' Gr. *μανθानω*, 'to learn,' Lat. *men* as in *mimini*, 'to think,' and *moneo*, 'to remember.' The word स्वांतम् *svāntam* corresponds to the Lat. *spons*, 'self,' or 'accord,' a word which occurs only in the ablative and genitive cases, as *sponse* and *sponsis*, and to Gr. *σπενδω*, 'to pour out or offer a drink-offering to a god,' and to Lat. *spondeo*, 'to promise legally,' 'to betroth.' In the ideas conveyed by the above Latin and Greek words a free will or vow to act is necessarily involved. In the Gr. *θυμος* the final consonant of तम् *tman* is cut off and the initial consonants त्म *tma* are developed into two syllables. Gr. *θυμος* is allied to Sans. धूम *dhūma*, 'smoke,' and धूप *dhūpa*, 'the smoke arising from a fragrant substance.' As the म *m* of धूम *dhūma* is changed into प *p*, there is no difficulty in changing the प *p* into क *k* in Greek, a change which takes place in that language very often. So we have from धूप *dhūpa* Gr. *συκη* which, by the addition of an initial π, assumes the form of ψυκη, 'soul,' ψυχω, 'to breathe.' Compare ψυχρος = π + *συχρος*, Sans. तुषार *tuṣāra*, तुग्र *tugra* of which *δρσος* and Lat. *ros* are modifications.<sup>2</sup> Gr. *συχη* seems to be allied to Arab. روح *rūh*, 'soul,' ريح *rīh*, 'wind,' and Heb. נפש *nephesh*, 'breath,' in which *r* stands for *s*.

<sup>1</sup> Cf. ध्वांत *dhvānta* which I have derived from तमस् *tamas* shortened into तम् *tmas* (p. 137).

<sup>2</sup> Vide the *Salila* Group.

68. आत्मन् *ātman* may be metamorphosed into आनन् *ānman*, आनम् *ānmar*, आनर् *ānmar* and, at last, by the addition of अ *a* at the end, अम्बर *ambara* which means 'heaven,' and when modified as अमर *amara* is used in the sense of a deity. अम्बर *ambara* is shortened into अभ्र *abhra*, Gr. *ομβρος*, *αφρος*, Lat. *imbra*, 'a shower of rain,' *imber*, 'clouds,' and *umbra*, 'shade,' and also into अंबु *ambu*, and अंभस् *ambhas*, 'water,' which last is derived from अम्बर *ambara*, by the loss of the final अ *a* and the aspiration of the letter ब *b* and the change of र *r* into स *s*. From अंभस् *ambhas* has been evolved a form of three syllables अनभस् *anabhas* by the insertion of the vowel अ *a* between the anusvāra and the following भ *bha*. It is shortened into नभस् *nabhas*. नभस् *nabhas* means 'water' and in this sense is changed into νυμφη, 'a water nymph,' and subsequently was transferred to the nymphs of other elements; thus came into existence the nymphs of trees, mountains, &c. *Naides* were spring nymfs; *Nηρηδες*, sea nymphs; *Ορεστιδες* or *Ορεαδες*, mountain nymphs; *Δρυαδες*; *Αμαδρυαδες*, *Αδρυαδες*, tree nymphs, and, similarly, other nymphs. In Sanskrit the word νυμφη is modified as रंभा *Rambhā* by the change of न *n* into र *r*. Compare सरस्वती *Sarasvatī* which originally meant 'water nymph' and subsequently was applied to the goddess of speech. (Vide p. 32.)

In Sanskrit the word रंभा *Rambhā* is a proper name and is applied to one of the celestial damsels. The word then passes to another meaning; the plantain tree is also called रंभा *rambhā* for the tree with its tender and green foliage



NOTES  
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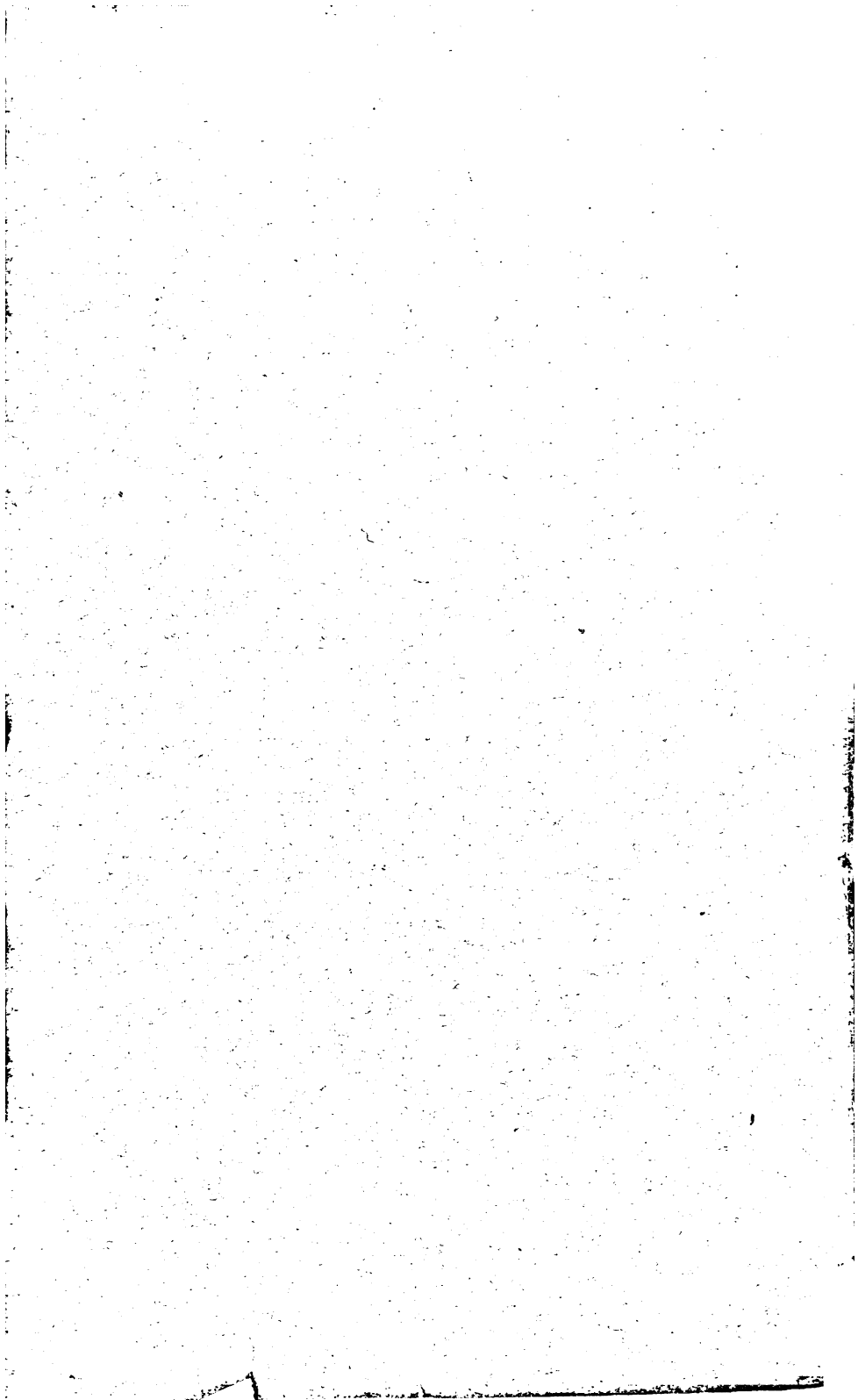
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